

# LUNAR MAGNETIC ANOMALY MODEL COMPARISON

Project report submitted to the  
**UNIVERSITY OF CALICUT**

In partial fulfillment of the requirement for the award of degree in  
**MASTER OF SCIENCE IN PHYSICS**

By

**AKHILA RAPHAEL**

**Reg. No: CCAWMPH001**



Under the guidance of

**Dr. DHANYA M. B**

Scientist/Engineer - SF

Space Physics Laboratory, Vikram Sarabhai Space Centre (VSSC)

Indian Space Research Organisation (ISRO),

Thiruvananthapuram - India

# EXPLORING CRYSTAL STRUCTURES AND INVESTIGATION OF $\text{AlSb}$ UNDER HIGH PRESSURE

Submitted by

**Aleena A S**

Reg No: CCAWMPH002



Department of Physics

**Christ College Irinjalakuda (Autonomous)**

In partial fulfillment of the requirements for the degree of

**MASTER OF SCIENCE IN PHYSICS**



Under the guidance of,

**Dr. Balmukund Shukla**

High Pressure Studies Section

Condensed Matter Physics Division

**Indira Gandhi Centre for Atomic Research [IGCAR]**

Kalpakkam

# **EFFECT OF ETCHING IN SILICA CAPILLARY BASED LASING SYSTEM**

Submitted to

**UNIVERSITY OF CALICUT**



In partial fulfilment of the requirements for the award of the Degree of

**MASTER OF SCIENCE**

**IN**

**PHYSICS**

Submitted by

**ALEENA K J**

**Register number: CCAWMPH003**

Under the guidance of

**Prof. M. KAILASNATH**

International School of Photonics

Cochin University of Science and Technology

Cochin-682022, Kerala, India



**NUMERICAL STUDY OF ONE-DIMENSIONAL PHOTONIC CRYSTAL  
USING COMSOL MULTIPHYSICS**

Submitted to,

**UNIVERSITY OF CALICUT**



In partial fulfilment of the requirements for the award of the degree of

**MASTER OF SCIENCE**

**IN**

**PHYSICS**

Submitted by,

**ASHLY JOSEPH**

**Register number: CCAWMPH004**

Under the guidance of

**Dr. PRIYA ROSE T**

International school of photonics, CUSAT

Cochin-682022, Kerala, India





# **NUMERICAL STUDY OF ONE-DIMENSIONAL PHOTONIC CRYSTAL USING COMSOL MULTIPHYSICS**

Submitted to,

**UNIVERSITY OF CALICUT**



In partial fulfilment of the requirements for the award of the degree of

**MASTER OF SCIENCE**

**IN**

**PHYSICS**

Submitted by,

**E A ATHIRA**

**Register number: CCAWMPH006**

Under the guidance of

**Dr. PRIYA ROSE T**

International school of photonics, CUSAT

Cochin-682022, Kerala, India



# **Development of $\text{ZnTiO}_3$ – PB Composite Laminates for Microwave Applications**

*A PROJECT REPORT*

*Submitted to*

**Christ College (Autonomous), Irinjalakuda**

*In Partial fulfillment of the requirements*

*for the award of the Degree of*

**MASTER OF SCIENCE IN PHYSICS**

*by*

**GOKUL DAS**

**(Reg No. CCAWMPH007)**

*Under the guidance of*

**Dr. DNYANDEO PAWAR**

**SCIENTIST**

**CENTRE FOR MATERIALS FOR ELECTRONICS TECHNOLOGY**

**(C-MET) THRISSUR**



**CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA**

**THRISSUR, KERALA**

# STRUCTURE AND DYNAMICS ACROSS GLASS TRANSITION IN DENSE MICROGEL SUSPENSION

Submitted by

Krishnapriya T. L

Reg No: CCAWMPH010



Department of Physics

**Christ College Irinjalakuda (Autonomous)**

In partial fulfilment of the requirements for the degree of

**MASTER OF SCIENCE IN PHYSICS**



Under the guidance of,

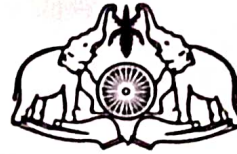
**Dr. R.G. Joshi**

Light Scattering Studies Section

Condensed Matter Physics Division

**Indira Gandhi Centre for Atomic Research [IGCAR]**

Kalpakkam



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Ph : 0487 233 0800, E mail : vijnansagar@gmail.com  
**Thrissur District Panchayat**

## Certificate of Internship

This is to certify that Mr. ATHUL KRISHNA 3<sup>rd</sup> SEMESTER B.Sc. PHYSICS  
student of CHRIST COLLEGE (Autonomous), TRINJALAKKUDA, has  
successfully completed the Internship held in Vijnan Sagar Science and Technology Park,  
Ramavarmapuram, Thrissur during the period May - June 2024

Thrissur  
30.06.2024

  
C.T. Ajith Kumar  
Special Officer  
Vijnan Sagar





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This is to certify that Ms. ANRIYA . K . A , 4<sup>th</sup> SEMESTER B.Sc. PHYSICS  
student of CHRIST COLLEGE (Autonomous) IRINJALAKKUDA, has  
successfully completed the Internship held in Vijnan Sagar Science and Technology Park,  
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Thrissur  
30.06.2024



  
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Special Officer  
Vijnan Sagar



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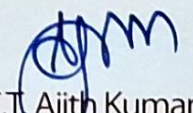
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Ph : 0487 233 0800, E mail : vijnansagar@gmail.com  
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## Certificate of Internship

This is to certify that Ms. T. B. YASMIN, 4th Semester B.Sc. Physics  
student of CHRIST COLLEGE (Autonomous) IRINJALAKKUDA, has  
successfully completed the Internship held in Vijnan Sagar Science and Technology Park,  
Ramavarmapuram, Thrissur during the period APRIL - MAY 2024

Thrissur  
30.06.2024



  
C.T. Ajith Kumar  
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**Thrissur District Panchayat**

## Certificate of Internship

This is to certify that Ms. SANDRA . P . P . A<sup>1<sup>st</sup></sup> Semester B.Sc. Physics  
student of CHRIST COLLEGE (Autonomous) IRINJALAKKUDA, has  
successfully completed the Internship held in Vijnan Sagar Science and Technology Park,  
Ramavarmapuram, Thrissur during the period APRIL - MAY 2024.

Thrissur  
30.06.2024

  
C.T. Ajith Kumar  
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## Certificate of Internship

This is to certify that Mr. HARISANKAR . C.R , 4<sup>th</sup> Semester B. Sc Physics  
student of CHRIST COLLEGE (Autonomous) IRINJALAKKUDA, has  
successfully completed the Internship held in Vijnan Sagar Science and Technology Park,  
Ramavarmapuram, Thrissur during the period APRIL - MAY 2024.

Thrissur  
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C.T. Ajith Kumar  
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*This certificate is awarded to*

**ANAMIKA E R**

*for successfully completing the course*

**Soft Skill Development**

*with a consolidated score of* **61** %

Online Assignments	20.58/25	Proctored Exam	40.5/75
--------------------	----------	----------------	---------

*Total number of candidates certified in this course:* **8456**



**Prof. Haimanti Banerji**  
Coordinator, NPTEL  
IIT Kharagpur

**Jul-Sep 2024**

**(8 week course)**



Indian Institute of Technology Kharagpur



Roll No: NPTEL24HS101S148100114

To verify the certificate



No. of credits recommended: 2 or 3





# NPTEL Online Certification

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This certificate is awarded to

**KIRANDEV C V**

*for successfully completing the course*

**Atomic and Molecular Physics**

with a consolidated score of **54** %

Online Assignments	13.19/25	Proctored Exam	40.5/75
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Total number of candidates certified in this course: **129**

**Jan-Apr 2024**

**(12 week course)**

**Prof. Haimanti Banerji**

Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL24PH04S1168400166

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No. of credits recommended: 3 or 4



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This certificate is presented by M/s. Novelsynergy Engineering Solutions Private Limited to  
**Ms. PARVATHY GIREESH**

Student of Christ College Irinjalakuda, Admission No. CCAVSPH033 for the completion of his/her  
internship with our company. From date: **27/12/2023** | Date of Completion: **02/01/2024**.

During the period of internship, she/ he had been exposed to different process of our company.

Over this time we found him/her to be diligent, hardworking and inquisitive.

We wish her/him every success in her/his life and career.



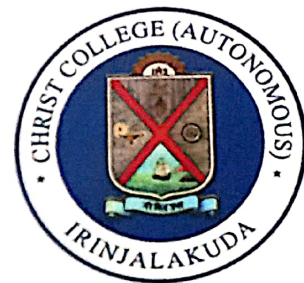
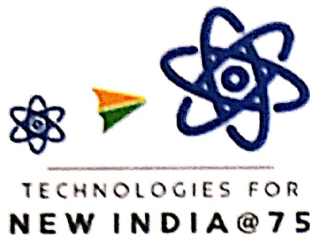
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(MANAGING DIRECTOR)

NovelSynergy Eng. Solutions Pvt.Ltd. Kumbhodiyamkhal  
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## Anu Awareness Yatra Program-2023

### Prize Certificate

This is to certify that Master/Miss. ANNA VARGHESE

of CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA

won First/Second/Third Prize in the Quiz/Slogan/Drawing/Elocution competition organized by Indira Gandhi Centre for Atomic Research & Christ College (Autonomous) Irinjalakuda, at Christ College (Autonomous) Irinjalakuda on 11<sup>th</sup> August 2023.

**Principal**

Christ College (Autonomous)  
Irinjalakuda



**Coordinator**

Anu Awareness Yatra-2023  
IGCAR, Kalpakam



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This certificate is presented by M/s. Novelsynergy Engineering Solutions Private Limited to  
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Student of Christ College Irinjalakuda, Admission No. 10547 for the completion of his/her internship with our company.

From date: **30/10/2023** | Date of Completion: **03/11/2023**.

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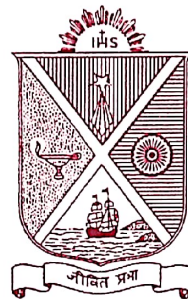
A handwritten signature in black ink, appearing to read "Joseph Gee Vattoly".

**JOSEPHGEEVATTOLY**  
(MANAGING DIRECTOR)

NovelSynergy Eng. Solutions Pvt.ltd. Kombodinjammakal  
Thrissur Dist. Kerala, Ph No: 0480 2990534

# Christ College (Autonomous)

IRINJALAKUDA



## CERTIFICATE OF MERIT

This is to certify that ~~Mr.~~ / Ms. ANNA VARUHESE  
is awarded Prof. P.O. Kochuvaneed Cash award to the B.Sc  
Second Semester top scored.

Date 17-03-2023



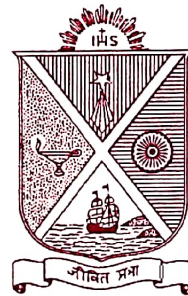
*[Signature]*

PRINCIPAL  
Associate Professor -  
In-charge of Principal  
Christ College (Autonomous)  
Irinjalakuda



# Christ College (Autonomous)

IRINJALAKUDA

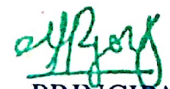


## CERTIFICATE OF MERIT

This is to certify that Mr. / Ms. ANNA VARUNHESE  
is awarded Prof. Joseph Mani Cash award to the Bsc top  
Scorer in the papers Mechanics I and II

Date 17-03-2023



  
PRINCIPAL  
Associate Professor -  
In-charge of Principal  
Christ College (Autonomous)  
Irinjalakuda

# CERTIFICATE OF INTERNSHIP

This certificate is presented by M/s. Novelsynergy Engineering Solutions Private Limited to

**Ms. ALINA N . A**

Student of Christ College Irinjalakuda, Admission No. CCAVSPH036 for the completion of his/her  
internship with our company. From date: 27/12/2023 | Date of Completion: 02/01/2024.

During the period of internship, she/ he had been exposed to different process of our company.

Over this time we found him/her to be diligent, hardworking and inquisitive.

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A handwritten signature in black ink, appearing to read "Joseph Gee Vattoly".

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(MANAGING DIRECTOR)

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CR No: NSESCR012411





Thrissur District Panchayath  
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Ramavarmapuram.P.O.,Thrissur-680631

## Certificate of Participation

*This is to Certify that E.V. Vishnupriya, Bsc Physics of Christ college.....  
.....Irinjalakuda.....had completed the Internship program in Vijnan Sagar  
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Standing Committee Chairman  
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This certificate is presented by M/s. Novelsynergy Engineering Solutions Private Limited to

**Ms. E .V VISHNUPRIYA**

Student of Christ College Irinjalakuda, Admission No.CCAVSPH026 for the completion of his/her  
internship with our company. From date: 27/12/2023 | Date of Completion: 02/01/2024.

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**Mr. MILAN PRASAD**

Student of Christ College Irinjalakuda, Admission No. CCAVSPH009 for the completion of his/her  
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During the period of internship, she/ he had been exposed to different process of our company.

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NovelSynergy Eng. Solutions Pvt.ltd. Kombodinjamakkal  
Thrissur Dist. Kerala, Ph No: 0480 2990534





Thrissur District Panchayath  
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Ramavarmapuram.P.O.,Thrissur-680631

## Certificate of Participation

This is to Certify that A.T.HIRA VINAYAN, Bsc. Physics of Christ college  
Irinjalakuda.....had completed the Internship program in Vijnan Sagar  
Science and Technology Park, Ramavarmapuram during the Period of May 23 to 27, 2022

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President  
Thrissur jilla Panchayath.

A.V. Vallabhan  
Standing Committee Chairman  
Health and Education  
Thrissur jilla Panchayat

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Science and Technology Park



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Thrissur Dist. Kerala, Ph No: 0480 2990534

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Student of Christ College Irinjalakuda, Admission No. CCAVSPH025 for the completion of his/her  
internship with our company. From date: **27/12/2023** | Date of Completion: **02/01/2024**.

During the period of internship, she/ he had been exposed to different process of our company.

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**JOSEPHGEE VATTOLY**  
(MANAGING DIRECTOR)

NovelSynergy Eng. Solutions Pvt.ltd. Kombodinjamakkal  
Thrissur Dist. Kerala, Ph No: 0480 2990534



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Ph : 0487 233 0800, E mail : vijnansagar@gmail.com  
Thrissur District Panchayat

### Certificate of Internship

This is to certify that Mr. SOVIN.V.S., 3<sup>rd</sup> Semester B.Sc Physics  
student of CHRIST COLLEGE, TRINJALAKKUDA (Autonomous), has  
successfully completed the Internship held in Vijnan Sagar Science and Technology Park,  
Ramavarmapuram, Thrissur during the period May - June 2024

Thrissur  
30.06.2024

  
C.T. Ajith Kumar  
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**DEPARTMENT OF PHYSICS**

**CERTIFICATE OF PARTICIPATION**

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**Convener**  
**Dr. A. Nataraj**

SRMISTPHY 2024 169

**Dr. Sakthi Ganesh. M**  
**Dean (E&T)**





# फ्लूइड कंट्रोल रिसर्च इंस्टिट्यूट Fluid Control Research Institute

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## CERTIFICATE

This is to certify that Ms. Mythili R Warriar (11784), Undergraduate Degree Physics student from Christ College (Autonomous), Irinjalakuda has undergone Internship Training at Fluid Control Research Institute, Kanjikode West, Palakkad from 22<sup>nd</sup> April 2024 to 29<sup>th</sup> April 2024.

Mr. C. Suresh

HOD-Training



Dr. M. Suresh

Director (I/C)

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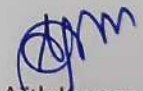
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Ph : 0487 233 0800, E mail : vijnansagar@gmail.com  
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### Certificate of Internship

This is to certify that Mr. THEJAS. N.S., 3<sup>rd</sup> SEMESTER B.Sc. PHYSICS  
student of CHRIST COLLEGE, IRINJALAKKUDA (Autonomous) has  
successfully completed the Internship held in Vijnan Sagar Science and Technology Park,  
Ramavarmapuram, Thrissur during the period MAY - JUNE 2024

Thrissur  
30.06.2024

  
C.T. Ajith Kumar  
Special Officer  
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**SRM INSTITUTE OF SCIENCE AND TECHNOLOGY**

**Ramapuram Campus**

**Faculty of Engineering and Technology**

**DEPARTMENT OF PHYSICS**

**CERTIFICATE OF PARTICIPATION**

This is to certify that

**Thejas N S Bsc Physics**

**Christ College (Autonomous) Irinjalakuda, Kerala**

has participated the **“Workshop on Quantum Mechanical calculations through Computational Techniques”** organized by Department of Physics, SRM Institute of Science and Technology, Ramapuram Campus, Chennai – 600089, Tamil Nadu on **27th July, 2024.**

**Convener**  
**Dr. A. Nataraj**

SRMISTPHY 2024 337

**Dr. Sakthi Ganesh. M**  
**Dean (E&T)**



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student of CHRIST COLLEGE (Autonomous), TRINJALAKKUDA, has  
successfully completed the Internship held in Vijnan Sagar Science and Technology Park,  
Ramavarmapuram, Thrissur during the period May-June 2024

Thrissur  
30.06.2024

  
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Special Officer  
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### **Certificate of Internship**

This is to certify that Ms. ANJANA A.R, 4<sup>th</sup> Semester B.Sc. PHYSICS  
student of CHRIST COLLEGE (Autonomous) IRINJALAKKUDA, has  
successfully completed the Internship held in Vijnan Sagar Science and Technology Park,  
Ramavarmapuram, Thrissur during the period APRIL - MAY 2024

Thrissur  
30.06.2024



  
C.T. Ajith Kumar  
Special Officer  
Vijnan Sagar



## VIJAN SAGAR SCIENCE AND TECHNOLOGY PARK

Ramavarmapuram.P.O., Thrissur - 680631, Kerala  
Ph : 0487 233 0800, E mail : vijnansagar@gmail.com  
Thrissur District Panchayat

### Certificate of Internship

This is to certify that Ms. SONIYA K. JOBY, 4<sup>th</sup> Semester B.Sc Physics  
student of CHRIST COLLEGE (Autonomous) Irinjalakkuda, has  
successfully completed the Internship held in Vijan Sagar Science and Technology Park,  
Ramavarmapuram, Thrissur during the period APRIL-MAY 2024

Thrissur  
30.06.2024



  
C.T. Ajith Kumar  
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**Thrissur District Panchayat**

## Certificate of Internship

This is to certify that Mr. SHALWIN JOSE, 4<sup>th</sup> Semester B.Sc. Physics  
student of CHRIST COLLEGE (Autonomous), IRINJALAKKUDA, has  
successfully completed the Internship held in Vijnan Sagar Science and Technology Park,  
Ramavarmapuram, Thrissur during the period APRIL - MAY 2024

Thrissur  
30.06.2024

  
C.T. Ajith Kumar  
Special Officer  
Vijnan Sagar

