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**Dr.S.Selvasekarapandian  
Director**

**Date: 03.08.2022**

### **CERTIFICATE**

This is to certify that **J. AGNES (2021MSCP01)**, Department of Physics, Fatima College (Affiliated to Madurai Kamaraj University), Madurai has successfully completed her Internship under the mentorship of **Dr.S.Selvasekarapandian**, Emeritus Professor, Bharathiar University & Director, Materials Research Center, Coimbatore. She worked on the title “**Ionic conductivity studies on Azadirachta Indica (Neem leaf) based electrolyte using Impedance spectroscopy**” in Materials Research Center (Madurai Branch), Madurai during the period of 01.07.2022 to 01.08.2022. **MARKS OBTAINED - 57/60** .

*S. Selvasekarapandian*  
**Director**

**The Director  
Materials Research Center  
Coimbatore - 641 045**

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**Madurai Branch: 7A, Veerabathirayar lane, South Gate, Madurai – 625 001**

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INDIA.**



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Email : [mrckovai@gmail.com](mailto:mrckovai@gmail.com)

Dr.S.Selvasekarapandian  
Director

Date: 03.08.2022

## **CERTIFICATE**

This is to certify that V. ARUNAASHREE (2021MSCP02), Department of Physics, Fatima College (Affiliated to Madurai Kamaraj University), Madurai has successfully completed her Internship under the mentorship of Dr.S.Selvasekarapandian, Emeritus Professor, Bharathiar University & Director, Materials Research Center, Coimbatore. She worked on the title “Ionic conductivity studies on Azadirachta Indica (Neem leaf) based electrolyte using Impedance spectroscopy” in Materials Research Center (Madurai Branch), Madurai during the period of 01.07.2022 to 01.08.2022. MARKS OBTAINED - 57/60 .

*S. Selvasekarapandian*  
Director

**The Director**  
**Materials Research Center**  
**Coimbatore - 641 045**

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**Madurai Branch: 7A, Veerabathirayar lane, South Gate, Madurai – 625 001**

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**Dr.S.Selvasekarapandian  
Director**

**Date: 03.08.2022**

### **CERTIFICATE**

This is to certify that **M. BATRICKS JEENA (2021MSCP03)**, Department of Physics, Fatima College (Affiliated to Madurai Kamaraj University), Madurai has successfully completed her Internship under the mentorship of **Dr.S.Selvasekarapandian**, Emeritus Professor, Bharathiar University & Director, Materials Research Center, Coimbatore. She worked on the title “**Ionic conductivity studies on Azadirachta Indica (Neem leaf) based electrolyte using Impedance spectroscopy**” in Materials Research Center (Madurai Branch), Madurai during the period of 01.07.2022 to 01.08.2022. **MARKS OBTAINED - 57/60**



*S. selvasekarapandian*  
**Director**

**The Director  
Materials Research Center  
Coimbatore - 641 045**

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<b>DEPARTMENT OF PHYSICS</b>		
<b>Phone: 04565-223300</b>	<b>Fax: (+91) 4565 225525</b>	<b>E-mail: physics@alagappauniversity.ac.in</b>

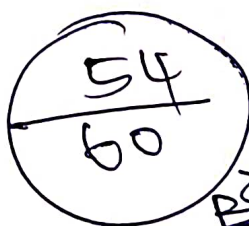
Dt. 16.07.2022

**Dr. G. Ravi**  
**Professor & Head**

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms. BENCIA IMMACULATE. J** is a student of M.Sc., (Physics) at Fatima College, Madurai has successfully completed the internship program between 29.06.2022 and 16.07.2022. During this period of her internship program with us she has learned basic research activities and hands on training of analytical instruments.

During this period her character and conduct are Good.



11/11/22



(G. RAVI)  
**Dr. G. RAVI** D.Sc., FRSC., FASCh.,  
 Professor and Head  
 Department of Physics  
 Alagappa University  
 Karaikudi-630 003



**CENTRE FOR NANOSCIENCE AND TECHNOLOGY  
ANNA UNIVERSITY, CHENNAI-600 025, INDIA**

**Dr R. SELVARAJAN M.Tech.,Ph.D**  
Teaching Fellow

Tel : +91-44-2235 9205

+91-44-2230 9113

E-mail: rrselvarajan@gmail.com

Date : 10.11.2022

**BONAFIDE CERTIFICATE**

This is to certify that **Ms. FAHEERA PARVEEN. N – 2021MSCP05, II-MSc** Physics student from **Research Centre of Physics, Fatima college (Autonomous), Affiliated to Madurai Kamaraj University, Madurai, Tamilnadu** has successfully completed her **Internship on “SYNTHESIS OF ZINC OXIDE (ZnO) NANOPARTICLES”** at **Centre for Nanoscience and Technology, Anna University, Chennai-600025** during the period from **29.06.2022 TO 10.07.2022**.

During the internship, we have found her to be dedicated, hardworking individual and her performance was good. She has scored an external mark of 59 out of 60.

On behalf of our organization, we wish her all the best in her future endeavours and we wish her every success in life.



**Dr R.SELVARAJAN M.Tech.,Ph.D**

Teaching Fellow,

Centre for Nanoscience and Technology,

A.C.Tech Campus,

Anna University, Chennai-600 025.





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Dr.S.Selvasekarapandian  
Director

Date: 03.08.2022

### CERTIFICATE

This is to certify that R. JESLINE FELSIA (2021MSCP07), Department of Physics, Fatima College (Affiliated to Madurai Kamaraj University), Madurai has successfully completed her Internship under the mentorship of Dr.S.Selvasekarapandian, Emeritus Professor, Bharathiar University & Director, Materials Research Center, Coimbatore. She worked on the title "Ionic conductivity studies on Azadirachta Indica (Neem leaf) based electrolyte using Impedance spectroscopy" in Materials Research Center (Madurai Branch), Madurai during the period of 01.07.2022 to 01.08.2022. MARKS OBTAINED - 57/60 .

*S. Selvasekarapandian*

Director

**The Director**  
**Materials Research Center**  
**Coimbatore - 641 045**

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Madurai Branch: 7A, Veerabathirayar lane, South Gate, Madurai – 625 001

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INDIA.

Dr. K. Thirupugalmani  
Director

Ref.No.:154/Int./2022-23

Date: 1/8/2022

## CERTIFICATE

This is to certify that **Joyce Jesintha. M** REG NO. 2021MSCP08, Department of Physics, Fathima College (Affiliated to Madurai Kamaraj University), Madurai has successfully completed her internship programme under the guidance of **Dr. K. Thirupugalmani** in our organization TERACRYST PVT. LTD. at Pudukkottai, Tamilnadu. She worked on the title "**Hydrothermal Synthesis of Mn-doped  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> (MFO)**" during the period of 01.07.2022 to 01.08.2022. she score 56 out of 60.

Director



Dr. K. Thirupugalmani



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Dr.S.Selvasekarapandian  
Director

Date: 03.08.2022

### **CERTIFICATE**

This is to certify that **R. KOWSALYA (2021MSCP10)**, Department of Physics, Fatima College (Affiliated to Madurai Kamaraj University), Madurai has successfully completed her Internship under the mentorship of **Dr.S.Selvasekarapandian**, Emeritus Professor, Bharathiar University & Director, Materials Research Center, Coimbatore. She worked on the title “**Ionic conductivity studies on Azadirachta Indica (Neem leaf) based electrolyte using Impedance spectroscopy**” in Materials Research Center (Madurai Branch), Madurai during the period of 01.07.2022 to 01.08.2022. **MARKS OBTAINED - 57/60**

*S. Selvaselvanathan*  
Director

**The Director**  
**Materials Research Center**  
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Dr.S.Selvasekarapandian  
Director

Date: 03.08.2022

### **CERTIFICATE**

This is to certify that T. LIBIYAVINNARASI (2021MSCP11), Department of Physics, Fatima College (Affiliated to Madurai Kamaraj University), Madurai has successfully completed her Internship under the mentorship of Dr.S.Selvasekarapandian, Emeritus Professor, Bharathiar University & Director, Materials Research Center, Coimbatore. She worked on the title "Ionic conductivity studies on Azadirachta Indica (Neem leaf) based electrolyte using Impedance spectroscopy" in Materials Research Center (Madurai Branch), Madurai during the period of 01.07.2022 to 01.08.2022. MARKS OBTAINED - 57/60 .

*S. Selvasekarapandian*

Director



**The Director**

**Materials Research Center  
Coimbatore - 641 045**

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<b>DEPARTMENT OF PHYSICS</b>		
<b>Phone: 04565-223300</b>	<b>Fax: (+91) 4565 225525</b>	<b>E-mail: physics@alagappauniversity.ac.in</b>

Dt. 16.07.2022

**Dr. G. Ravi**  
**Professor & Head**

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. MARIA JASMINE SHINY. A is a student of M.Sc., (Physics) at Fatima College, Madurai has successfully completed the internship program between 29.06.2022 and 16.07.2022. During this period of her internship program with us she has learned basic research activities and hands on training of analytical instruments.

During this period her character and conduct are Good.



*[Handwritten signature]*  
 11/11/22

*[Handwritten signature]*  
 16/7/22

**(G. RAVI)**  
**Dr. G. RAVI** B.Sc. FRCO, FASCH.,  
 Professor and Head  
 Department of Physics  
 Alagappa University  
 Karaikudi-630 003



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Email : [mrckovai@gmail.com](mailto:mrckovai@gmail.com)

Dr.S.Selvasekarapandian  
Director

Date: 03.08.2022

### CERTIFICATE

This is to certify that F. MARIYA SHINOLA (2021MSCP13), Department of Physics, Fatima College (Affiliated to Madurai Kamaraj University), Madurai has successfully completed her Internship under the mentorship of Dr.S.Selvasekarapandian, Emeritus Professor, Bharathiar University & Director, Materials Research Center, Coimbatore. She worked on the title "Ionic conductivity studies on Azadirachta Indica (Neem leaf) based electrolyte using Impedance spectroscopy" in Materials Research Center (Madurai Branch), Madurai during the period of 01.07.2022 to 01.08.2022. MARKS OBTAINED - 57/60.

*S. Selvasekarapandian*  
Director

**The Director**  
**Materials Research Center**  
**Coimbatore - 641 045**

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INDIA.

Dr. K. Thirupugalmani  
Director

Ref.No.:155/Int./2022-23

Date: 1/8/2022

## CERTIFICATE

This is to certify that **Monisha. M** REG NO. 2021MSCP14, Department of Physics, Fathima College (Affiliated to Madurai Kamaraj University), Madurai has successfully completed her internship programme under the guidance of **Dr. K. Thirupugalmani** in our organization TERACRYST PVT. LTD. at Pudukkottai, Tamilnadu. She worked on the title "**Hydrothermal Synthesis of Mn-doped  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> (MFO)**" during the period of 01.07.2022 to 01.08.2022. she score 56 out of 60.

Director



Dr. K. Thirupugalmani



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**Dr.S.Selvasekarapandian  
Director**

**Date: 03.08.2022**

### **CERTIFICATE**

This is to certify that P. PAPINA (2021MSCP16), Department of Physics, Fatima College (Affiliated to Madurai Kamaraj University), Madurai has successfully completed her Internship under the mentorship of Dr.S.Selvasekarapandian, Emeritus Professor, Bharathiar University & Director, Materials Research Center, Coimbatore. She worked on the title “Ionic conductivity studies on Azadirachta Indica (Neem leaf) based electrolyte using Impedance spectroscopy” in Materials Research Center (Madurai Branch), Madurai during the period of 01.07.2022 to 01.08.2022. **MARKS OBTAINED - 57/60**

*S. Selvasekarapandian*  
**Director**

**The Director  
Materials Research Center  
Coimbatore - 641 045**

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INDIA.**



**CENTRE FOR NANOSCIENCE AND TECHNOLOGY  
ANNA UNIVERSITY, CHENNAI-600 025, INDIA**

**Dr R. SELVARAJAN M.Tech.,Ph.D**  
Teaching Fellow

Tel : +91-44-2235 9205  
+91-44-2230 9113

E-mail: rrselvarajan@gmail.com

Date : 10.11.2022

**BONAFIDE CERTIFICATE**

This is to certify that **Ms. POORNIMADEVI. B – 2021MSCP17, II-MSc Physics** student from **Research Centre of Physics, Fatima college (Autonomous), Affiliated to Madurai Kamaraj University, Madurai, Tamilnadu** has successfully completed her Internship on **“SYNTHESIS OF TITANIUM DIOXIDE (TiO<sub>2</sub>) NANOPARTICLES”** at **Centre for Nanoscience and Technology, Anna University, Chennai-600025** during the period from **29.06.2022 TO 10.07.2022**.

During the internship, we have found her to be dedicated, hardworking individual and her performance was good. She has scored an external mark of 59 out of 60.

On behalf of our organization, we wish her all the best in her future endeavors and we wish her every success in life.



  
**Dr R.SELVARAJAN M.Tech.,Ph.D**

Teaching Fellow,  
Centre for Nanoscience and Technology,  
A.C.Tech Campus,  
Anna University, Chennai-600 025.





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Dr.S.Selvasekarapandian  
Director

Date: 03.08.2022

### **CERTIFICATE**

This is to certify that **V. PREMA (2021MSCP18)**, Department of Physics, Fatima College (Affiliated to Madurai Kamaraj University), Madurai has successfully completed her Internship under the mentorship of **Dr.S.Selvasekarapandian**, Emeritus Professor, Bharathiar University & Director, Materials Research Center, Coimbatore. She worked on the title **“Ionic conductivity studies on Azadirachta Indica (Neem leaf) based electrolyte using Impedance spectroscopy”** in Materials Research Center (Madurai Branch), Madurai during the period of 01.07.2022 to 01.08.2022. **MARKS OBTAINED - 57/60**

*S. Selvasekarapandian*  
Director

**The Director**  
**Materials Research Center**  
**Coimbatore - 641 045**

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CENTRE FOR NANOSCIENCE AND TECHNOLOGY  
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Teaching Fellow

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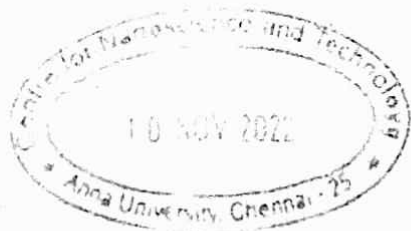
Date : 10.11.2022

### BONAFIDE CERTIFICATE

This is to certify that **Ms. PRINCY. J - 2021MSCP19**, II-MSc Physics student from Research Centre of Physics, Fatima college (Autonomous), Affiliated to Madurai Kamaraj University, Madurai, Tamilnadu has successfully completed her Internship on "SYNTHESIS OF MANGANESE DIOXIDE ( $\text{MnO}_2$ ) NANOPARTICLES" at Centre for Nanoscience and Technology, Anna University, Chennai-600025 during the period from 29.06.2022 TO 10.07.2022.

During the internship, we have found her to be dedicated, hardworking individual and her performance was good. She has scored an external mark of 59 out of 60.

On behalf of our organization, we wish her all the best in her future endeavors and we wish her every success in life.



*Dr R. Selvarajan*

Dr R.SELVARAJAN M.Tech., Ph.D

Teaching Fellow,

Centre for Nanoscience and Technology,

A.C.Tech Campus,

Anna University, Chennai-600 025.



Dr. K. Thirupugalmani  
Director

Ref.No.:153/Int./2022-23

Date: 1/8/2022

## CERTIFICATE

This is to certify that **Shiney Precilla. S** REG NO. 2021MSCP20, Department of Physics, Fathima College (Affiliated to Madurai Kamaraj University), Madurai has successfully completed her internship programme under the guidance of **Dr. K. Thirupugalmani** in our organization TERACRYST PVT. LTD. at Pudukkottai, Tamilnadu. She worked on the title "**Hydrothermal Synthesis of Mn-doped  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> (MFO)**" during the period of 01.07.2022 to 01.08.2022. she score 56 out of 60.

Director



Dr. K. Thirupugalmani



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**Dr R. SELVARAJAN M.Tech.,Ph.D**  
**Teaching Fellow**

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**E-mail: rrselvarajan@gmail.com**

**Date : 10.11.2022**

**BONAFIDE CERTIFICATE**

This is to certify that **Ms. SIVAPRIYADHARSHINI. R – 2021MSCP21, II-MSc** Physics student from **Research Centre of Physics, Fatima college (Autonomous), Affiliated to Madurai Kamaraj University, Madurai, Tamilnadu** has successfully completed her **Internship on “SYNTHESIS OF COPPER OXIDE (CuO) NANOPARTICLES”** at **Centre for Nanoscience and Technology, Anna University, Chennai-600025** during the period from **29.06.2022 TO 10.07.2022**.

During the internship, we have found her to be dedicated, hardworking individual and her performance was good. She has scored an external mark of 59 out of 60.

On behalf of our organization, we wish her all the best in her future endeavors and we wish her every success in life.



**Dr R.SELVARAJAN M.Tech.,Ph.D**





**Teaching Fellow,**

**Centre for Nanoscience and Technology,**

**A.C.Tech Campus,**

**Anna University, Chennai-600 025.**

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Dt. 16.07.2022

**Dr. G. Ravi**  
**Professor & Head**

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms. SUNDARI. B** is a student of M.Sc., (Physics) at Fatima College, Madurai has successfully completed the internship program between 29.06.2022 and 16.07.2022. During this period of her internship program with us she has learned basic research activities and hands on training of analytical instruments.

During this period her character and conduct are Good.



55  
60  
16/7/22

 16/7/22

(G. RAVI)

**Dr. G. RAVI** D.Sc., FRSC., FASCh.,  
Professor and Head  
Department of Physics  
Alagappa University  
Karaikudi-630 003

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Dr.S.Selvasekarapandian  
Director

Date: 03.08.2022

### **CERTIFICATE**

This is to certify that S. ANGELIN SNEGA (2021MSCP26), Department of Physics, Fatima College (Affiliated to Madurai Kamaraj University), Madurai has successfully completed her Internship under the mentorship of Dr.S.Selvasekarapandian, Emeritus Professor, Bharathiar University & Director, Materials Research Center, Coimbatore. She worked on the title "Ionic conductivity studies on Azadirachta Indica (Neem leaf) based electrolyte using Impedance spectroscopy" in Materials Research Center (Madurai Branch), Madurai during the period of 01.07.2022 to 01.08.2022. MARKS OBTAINED - 57/60

*S. Selva seshapandian*  
Director

**The Director**  
**Materials Research Center**  
**Coimbatore - 641 045**

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**Madurai Branch:** 7A, Veerabathirayar lane, South Gate, Madurai – 625 001

**Main Branch:** 200A, Thiruvalluvar Nagar, Ramanathapuram, Coimbatore – 641 045,  
INDIA.



	<p align="center"><b>ALAGAPPA UNIVERSITY</b>          (A State University Established by the Government of Tamil Nadu in 1985,          Accredited with A+ Grade by NAAC (CGPA 3.64) in the Third Cycle,          Graded as Category-I University and Granted Autonomy by MHRD-UGC,          MHRD-NIRF 2020 Rank : 36, QS 2020 India Rank : 24)  <b>KARAIKUDI - 630 003, Tamil Nadu, India</b></p>	
<p align="center"><b>DEPARTMENT OF PHYSICS</b></p>		
<b>Phone: 04565-223300</b>	<b>Fax: (+91) 4565 225525</b>	<b>E-mail: physics@alagappauniversity.ac.in</b>

Dt. 16.07.2022

**Dr. G. Ravi**  
**Professor & Head**

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms. SIVAPRIYA. M** is a student of M.Sc., (Physics) at Fatima College, Madurai has successfully completed the internship program between 29.06.2022 and 16.07.2022. During this period of her internship program with us she has learned basic research activities and hands on training of analytical instruments.

During this period her character and conduct are Good.



  
**(G. RAVI)**

**Dr. G. RAVI** D.Sc., FRSC., FASch.,  
 Professor and Head  
 Department of Physics  
 Alagappa University  
 Karaikudi-630 003

## **MATERIALS RESEARCH CENTER**

**(MADURAI BRANCH)**

**RUN BY**

**SUBRAMANIAN THANGATHAI EDUCATIONAL TRUST**

**(Regd : 60/BK IV)**

**Cell : +91 94437 03089**

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**Email : [mrckovai@gmail.com](mailto:mrckovai@gmail.com)**

**Dr.S.Selvasekarapandian  
Director**

**Date: 03.08.2022**

### **CERTIFICATE**

This is to certify that **A. ABINAYA (2021MSCP28)**, Department of Physics, Fatima College (Affiliated to Madurai Kamaraj University), Madurai has successfully completed her Internship under the mentorship of **Dr.S.Selvasekarapandian**, Emeritus Professor, Bharathiar University & Director, Materials Research Center, Coimbatore. She worked on the title "**Ionic conductivity studies on Azadirachta Indica (Neem leaf) based electrolyte using Impedance spectroscopy**" in Materials Research Center (Madurai Branch), Madurai during the period of 01.07.2022 to 01.08.2022. **MARKS OBTAINED - 57/60**

*S. Selvasekarapandian*

**Director**

**The Director  
Materials Research Center  
Coimbatore - 641 045**

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