

1.3.3 QnM Percentage of programmes that have components of field projects / research projects / internships during the last five years.

Programme name	Program Code	Reg.No	Name of students undertaking field projects /internships/student projects	Link to the relevant document	
M.Sc Physics	PH02	BP210301	LUKE FERNANDO J		
		BP210302	KAMALI J		
		BP210303	PRIYAMATHI V		
		BP210304	GUHAN G		
		BP210305	ANUSHA S		
		BP210306	MERCY JENIFER M		
		BP210307	POOMANI A F		
		BP210308	ELAMATHI K		
		BP210309	MARIYA JOSEPH A		
		BP210310	GAYATHRI V		
		BP210311	ARCHANA A		
		BP210312	WILSONAMALRAJ D		
		BP210313	THABITHAL R		
		BP210314	ANTONY LEENAS J		
		BP210315	NALINA P		
		BP210316	KAVIPRIYA K		
		BP210317	PRADEEPA A		
		BP210318	ARCHANA R		
		BP210321	THEOPHILUS VASANTHAN M		
		BP210323	VANTHANA SRI G		
		BP210324	JASMINE CHRISTY L		
		BP210325	ARIVARASAN G		
		BP210326	ROSHINI A		
		BP210327	SAM THEODERE R		
		BP210328	YAMUNARANI C		
		BP210329	PREETHI G		



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CERTIFICATE

This is certify that of the dissertation, entitled "**Screening of novel inhibitors against EGFR-positive lung cancer -A computational approach**", submitted to the Sacred Heart College (Autonomous), Tirupattur in partial fulfillment of the requirements for the award of the Degree of Master of Science in Physics is a record of original research work done by **Luke Fernando.J (BP210301)** during the period of 2022-2023 of his study in the Department of Physics at Sacred Heart College (Autonomous), Tirupattur, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree or other similar title to any candidate of any colleges and Universities/Instituion.

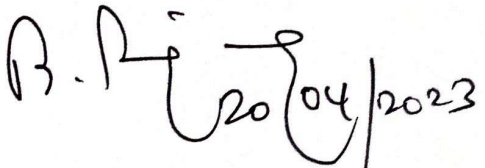

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CERTIFICATE

This is to certify that the dissertation, entitled "**SPHERICAL MORPHOLOGICAL ZnO AS A PHOTO ANODE MATERIAL FOR DYE SENSITIZED SOLAR CELL USING INDIGO BLUE DYE,**" submitted to the Sacred Heart College (Autonomous), Tirupattur in partial fulfilment of the requirements for the award of the Degree of Master of Science in Physics is a record of original research work done by **Kamali. J (BP210302)** during the period of 2021-2022 of his study in the Department of Physics at Sacred Heart College (Autonomous), Tirupattur, under my supervision and guidance, and the dissertation has not formed the basis for the award of any Degree or other similar title to any candidate of any colleges and Universities/Institution.


Signature of the HOD

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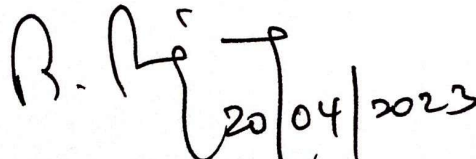
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CERTIFICATE


This is to certify that the dissertation, entitled “**GROWTH AND CHARACTERIZATION OF 2-CHLOROBENZYL METHYL METHACRYLATE SINGLE CRYSTALS AND THEIR EFFECT ON THE ENERGETIC N₂ GLOW DISCHARGE PLASMA**”, submitted to the Sacred Heart College (Autonomous), Tirupattur in partial fulfillment of the requirements for the award of the Degree of Master of Science in Physics in a record of original research work done by **V. PRIYAMATHI, (Reg. No: BP210303)** during the period of 2021 – 2023 of his study in the PG and Research Department of Physics at Sacred Heart College (Autonomous), Tirupattur, under my guidance and the dissertation has not formed the basis for the award of any Degree or other similar title to any candidate of any colleges and Universities.



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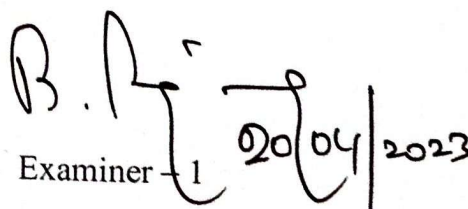


Signature of Research Guide

(Dr. M. Aravinthraj)

Place: Tirupattur,

Date:



Examiner - 1

Examiner - 2



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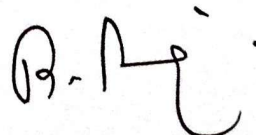
This is to certify that the dissertation, entitled "**Computational Identification of Lead Compounds Against Mutant KRAS**", submitted to the Sacred Heart College (Autonomous), Tirupattur in partial fulfilment of the requirements for the award of the Degree of Master of Science in Physics is a record of original research work done by **GUHAN.G (BP210304)** during the period of 2022-2023 of his study in the Department of Physics at Sacred Heart College (Autonomous), Tirupattur, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree or other similar title to any candidate of any colleges and Universities/Institution.

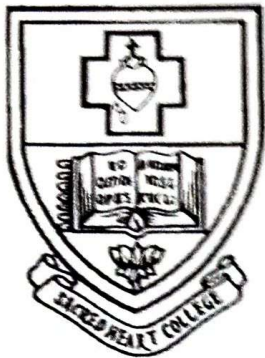

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This is to certify that the dissertation, entitled “Investigations on growth and characterization of Glycine Para Nitro-Phenol Crystal for NLO application.” submitted to the Sacred Heart College, Tirupattur in partial fulfillment of the requirements for the award of the Degree of Master of Science in Physics is a record of original research work done by **Anusha.S (Reg. No: BP210305)** during the period of 2022-2023 of her study in the Department of Physics at Sacred Heart College, Tirupattur, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree or other similar title to any candidate of any colleges and Universities.

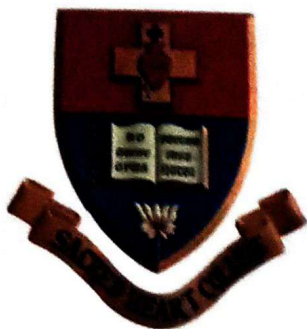
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This is to certify that the dissertation, entitled “ **SYNTHESIS OF ZnO/CuO@g-C₃N₄ TRIPLET HETEROJUNCTION NANOCOMPOSITE FOR PHOTOCATALYTIC APPLICATION**”, submitted to the Sacred Heart College (Autonomous), Tirupattur in partial fulfilment of the requirements for the award of the Degree of Master of Science in Physics is a record of original research work done by **Ms. M.MERCY JENIFER (REG. NO: BP210306)** during the period of 2022-2023 of her study in the Department of Physics at Sacred Heart College (Autonomous), Tirupattur, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree or other similar title to any candidate of any colleges and Universities/Institution.

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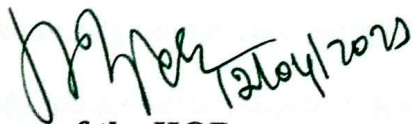
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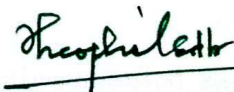
This is to certify that the dissertation, entitled "**Dye-Sensitized Solar Cells based on spherical morphological TiO₂ as a photoanode material using Congo Red Dye**", submitted to the Sacred Heart College (Autonomous), Tirupattur in partial fulfilment of the requirements for the award of the Degree of Master of Science in Physics is a record of original research work done by **Poomani A F (BP210307)** from 2022 to 2023 of his study in the Department of Physics at Sacred Heart College (Autonomous), Tirupattur, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree or other similar title to any candidate of any colleges and Universities/Institution.



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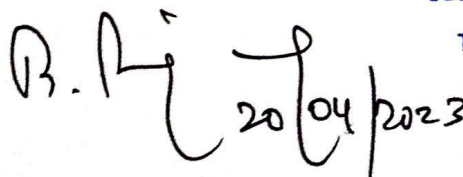
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CERTIFICATE

This is to certify that the dissertation, entitled "**SYNTHESIS AND CHARACTERIZATION OF IRON OXIDE AND ZINC OXIDE NANOPARTICLES BY USING CALOTROPIS GIGANTEA LATEX EXTRACT**", submitted to the Sacred Heart College (Autonomous), Tirupattur in partial fulfilment of the requirements for the award of the Degree of Master of Science in Physics is a record of original research work done by **ELAMATHI K (REGISTER NO: BP210308)** during the period of 2022 to 2023 of her study in the Department of Physics at Sacred Heart College (Autonomous), Tirupattur, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree or other similar title to any candidate of any colleges and Universities/Institutions.


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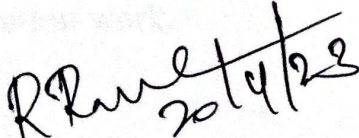
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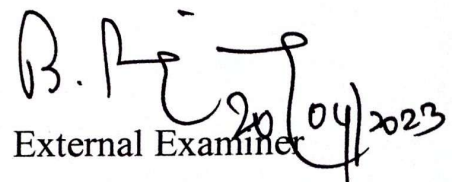
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Internal Examiner


20/04/2023

External Examiner


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This is to certify that the dissertation, entitled "**Growth and investigation of MBT chalcone derivatives crystal**", submitted to the Sacred Heart College (Autonomous), Tirupattur in partial fulfillment of the requirements for the award of the Degree of Master of Science in Physics is a record of original research work done by **A. Mariya Joseph (BP210309)** during the period of 2022-2023 of his study in the Department of Physics at Sacred Heart College (Autonomous), Tirupattur, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree or other similar title to any candidate of any colleges and Universities/Institution.

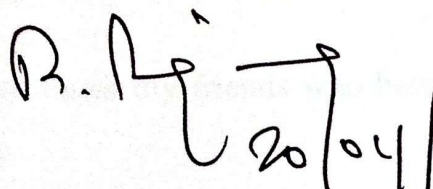

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Research Supervisor


(Prof. N. Madhavan)




20/04/2023

CERTIFICATE

This is to certify that the dissertation, entitled "**GROWTH AND CHARACTERIZATION OF 2-NITROBENZYL METHYL ACRYLATE SINGLE CRYSTALS AND THEIR PRELIMINARY ASSESSMENT ON THE EFFECT OF GLOW -DISCHARGE PLASMA**", submitted to the Sacred Heart College (Autonomous), Tirupattur in partial fulfillment of the requirements for the award of the Degree of Master of Science in Physics in a record of original research work done by **V. GAYATHRI, (Reg. No: BP210310)** during the period of 2021 – 2023 of his study in the PG and Research Department of Physics at Sacred Heart College (Autonomous), Tirupattur, under my guidance and the dissertation has not formed the basis for the award of any Degree or other similar title to any candidate of any colleges and Universities.


Signature of the HOD 12/04/2023

(Dr. M. Jose)

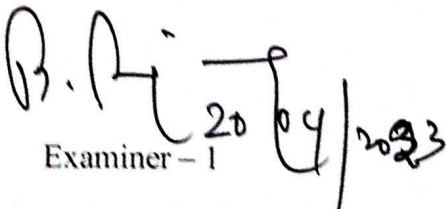
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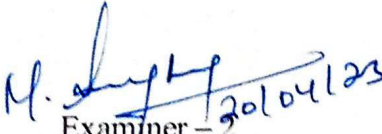

Signature of Research Guide

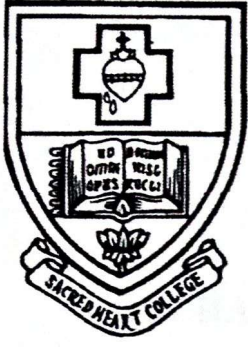
(Dr. M. Aravinthraj)

Place: Tirupattur,

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Examiner - 1 20/04/2023


Examiner - 2 20/04/23




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CERTIFICATE

This is to certify that the dissertation, entitled “Growth and characterization of sodium acid phthalate doped Lanthanum Nitrate Hexa Hydrate single crystal submitted to the Sacred Heart College, Tirupattur in partial fulfillment of the requirements for the award of the Degree of Master of Science in Physics is a record of original research work done by **ARCHANA.A (Reg. No: BP210311)** during the period of 2022-2023 of her study in the Department of Physics at Sacred Heart College, Tirupattur, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree or other similar title to any candidate of any colleges and Universities.

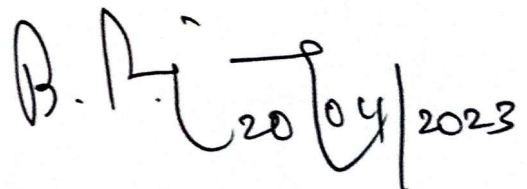

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B. Anandaraj
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CERTIFICATE

This is to certify that the dissertation entitled “EFFECT OF SHOCK WAVES ON BFO NANOPARTICLES SYNTHESIZED BY HYDROTHERMAL METHOD ” submitted to the Sacred Heart College (Autonomous), Tirupattur, in the fulfillment of the requirements for the award of the degree of Master of Science in Physics is a record of original work done by **D.WILSONAMALRAJ (BP210312)** during the period (2022-2023) of his study in the Department of Physics, Sacred Heart College (Autonomous), Tirupattur, under my supervision and guidance. The dissertation has not formed the basis for the award of any degree or similar title to any candidate of any College or University.

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Head (PG Physics)

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Research Supervisor

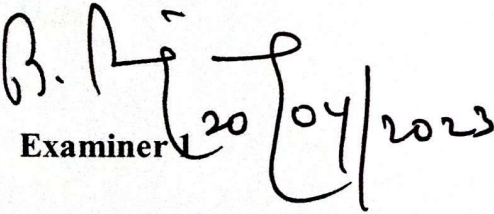
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Assistant Professor of Physics

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Submitted to **Sacred Heart College (Autonomous)**, Tirupattur at the Viva-Voice examination held on.....


Examiner 1

Examiner 2



Dr.S.Kalaiarasi

Assistant professor,


Department of Physics,

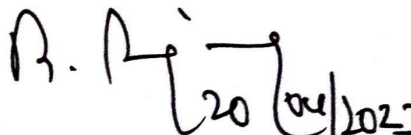
Sacred Heart College (Autonomous),


Tirupattur-635601.

CERTIFICATE

This is certify that the dissertation, entitled “**Synthesis and Characterization of TiO₂ Nanoparticles by Hydrothermal method**”, submitted to the Sacred Heart College (Autonomous), Tirupattur in partial fulfillment of the requirements for the award of the Degree of Master of Science in Physics is a record of original research work done by **THABITHAL.R (BP210313)** during the period of 2022-2023 of his study in the Department of Physics at Sacred Heart College (Autonomous), Tirupattur, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree or other similar title to any candidate of any colleges and Universities/Instituiton.


DR. M. JOSE Head (P.G)
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20/04/2023


Research Supervisor
(Dr. S.Kalaiarasi)

CERTIFICATE

This is certify that of the dissertation, entitled "**OPTICAL AND ELECTRICAL ANALYSIS OF (2E)-2-(3,4-DIMETHOXYBENZYLIDENE) -3,4-DIHYDRONAPTHELENE-1(2H) ONE (DMP) CRYSTALS.**", submitted to the Sacred Heart College (Autonomous), Tirupattur in partial fulfillment of the requirements for the award of the Degree of Master of Science in Physics is a record of original research work done by **J.ANTONY LEENAS (BP210314)** during the period of 2022-2023 of his study in the Department of Physics at Sacred Heart College (Autonomous), Tirupattur, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree or other similar title to any candidate of any colleges and Universities/Instituiton.

Signature of the HOD

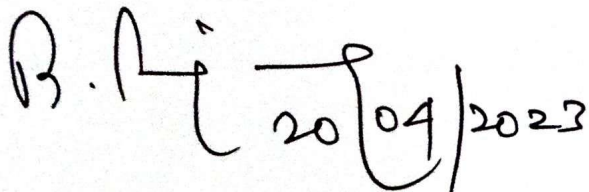

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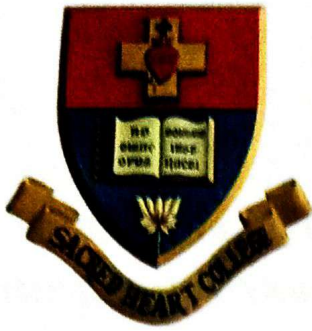
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10/4/23


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CERTIFICATE

This is to certify that the dissertation, entitled “**IMPACT OF DYNAMIC SHOCK WAVES ON BARIUM SULFIDE**”, submitted to the Sacred Heart College (Autonomous), Tirupattur in partial fulfillment of the requirements for the award of the Degree of Master of Science in Physics is a record of original research work done by **Ms. P. NALINA (REG. NO: BP210315)** during the period of 2022-2023 of her study in the Department of Physics at Sacred Heart College (Autonomous), Tirupattur, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree or other similar title to any candidate of any colleges and Universities/Institution.

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CERTIFICATE

This is certify that the dissertation entitled "**Fabrication of CaO@SiO₂ core shell nanocomposites and investigation of its dielectric properties**", submitted to the Sacred Heart College (Autonomous), Tirupattur in partial fulfillment of the requirements for the award of the Degree of Master of Science in Physics is a record of original research work done by **KAVIPRIYA K (Reg.No. BP210316)** during the period of 2022-2023 of her study in the Department of Physics at Sacred Heart College (Autonomous), Tirupattur under my supervision and guidance. This dissertation is an original work of the candidate and to the best of my knowledge has not been submitted in part (or) in full Diploma, Degree, Fellowship or other similar titles in this or any other University. No portion of the dissertation is a reproduction from any other source, published or unpublished without acknowledgement.


Signature of the HOD

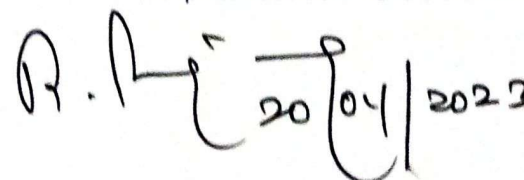
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CERTIFICATE

This is to certify that the dissertation, entitled “**INVESTIGATION OF PROPERTIES OF CADMIUM BORATE AGAINST THE IMPACT OF SHOCK WAVES**”, submitted to the Sacred Heart College (Autonomous), Tirupattur in partial fulfillment of the requirements for the award of the Degree of Master of Science in Physics is a record of original research work done by **Ms. A. PRADEEPA (REG. NO: BP210317)** during the period of 2022-2023 of her study in the Department of Physics at Sacred Heart College (Autonomous), Tirupattur, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree or other similar title to any candidate of any colleges and Universities / Institution.


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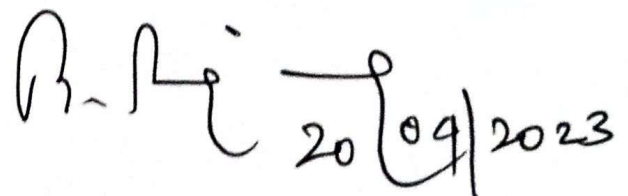
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20/04/2023

CERTIFICATE

This is to certify that the dissertation entitled "SYNTHESIS AND CHARACTERIZATION OF PURE AND SHOCK INDUCED Mn_3O_4 NANOPARTICLES" submitted to the Sacred Heart College (Autonomous), Tirupattur in the fulfillment of the requirements for the award of degree of Master of Science in Physics is a record of original work done by **R.ARCHANA (BP210318)** during the period (2022-2023) of her study in the Department of Physics, Sacred Heart College (Autonomous), Tirupattur, under my supervision and guidance. The dissertation has not formed the basis for the award of any degree or similar title to any candidate of any College or University.


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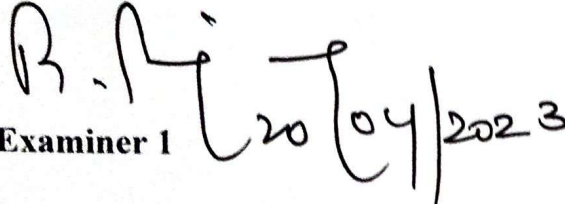
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Examiner 1

Examiner 2



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This is certify that of the dissertation, entitled " **SYNTHESIS AND CHARACTERIZATION OF ZINC OXIDE AND IRON OXIDE NANOPARTICLES BY USING CUMINUM CYMINUM SEED EXTRACT** ", submitted to the Sacred Heart College (Autonomous), Tirupattur in partial fulfillment of the requirements for the award of the Degree of Master of Science in Physics is a record of original research work done by **Theophilus Vasnthan M (BP210321)** during the period of 2022-2023 of his study in the Department of Physics at Sacred Heart College (Autonomous), Tirupattur, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree or other similar title to any candidate of any colleges and Universities/Instituion.

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This is certify that of the dissertation, entitled " **STRUCTURAL AND OPTICAL CHARACTERIZATION OF PURE AND (Fe, Ni) DOPED ZnS NANOPARTICLES FOR SPINTRONIC APPLICATIONS** ,, submitted to the Sacred Heart College (Autonomous), Tirupattur in partial fulfillment of the requirements for the award of the Degree of Master of Science in Physics is a record of original research work done by **Ms. VANTHANA SRI G. (BP210323)** during the period of 2022-2023 of his study in the Department of Physics at Sacred Heart College (Autonomous), Tirupattur , under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree or other similar title to any candidate of any colleges and Universities/ Instituiton .

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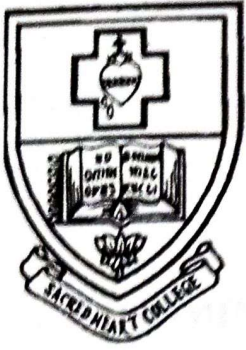
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This is to certify that the dissertation, entitled "**Investigations and Characterization of NLO crystal SAP and Potassium Chloride**" submitted to the Sacred Heart College, Tirupattur in partial fulfillment of the requirements for the award of the Degree of Master of Science in Physics is a record of original research work done by **JASMINE CHRISTY.L (Reg. No: BP210324)** during the period of **2022-2023** of her study in the Department of Physics at Sacred Heart College, Tirupattur, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree or other similar title to any candidate of any colleges and Universities.

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This is certify that of the dissertation, entitled " **Cerium Oxide nanoparticles prepared by hydrothermal method in various calcination temperature** ", submitted to the Sacred Heart College (Autonomous), Tirupattur in partial fulfillment of the requirements for the award of the Degree of Master of Science in Physics is a record of original research work done by **ARIVARSAN G (BP210325)** during the period of 2022-2023 of his study in the Department of Physics at Sacred Heart College (Autonomous), Tirupattur, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree or other similar title to any candidate of any colleges and Universities/Institution.



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This is to certify that the dissertation, entitled "**An investigation on the structural and magnetic behavior of electrodeposited Ni-Mn thin films**", submitted to the Sacred Heart College (Autonomous), Tirupattur in partial fulfillment of the requirements for the award of the Degree of Master of Science in Physics is a record of original research work done by **Ms. A. ROSHINI (Reg. No: BP210326)** during the period of 2022-2023 of her study in the Department of Physics at Sacred Heart College (Autonomous), Tirupattur, under my supervision and guidance and the dissertation has not formed the basis for the award of any degree or other similar title to any candidate of any colleges and Universities/Institution.

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This is certify that of the dissertation, entitled "**Characterization of chitosan and biotin coated with the synthesized TiO₂ nanoparticles for cancer treatment**", submitted to the Sacred Heart College (Autonomous), Tirupattur in partial fulfillment of the requirements for the award of the Degree of Master of Science in Physics is a record of original research work done by **Sam Theodore R (BP210327)** during the period of 2022-2023 of his study in the Department of Physics at Sacred Heart College (Autonomous), Tirupattur, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree or other similar title to any candidate of any colleges and Universities/Institution.


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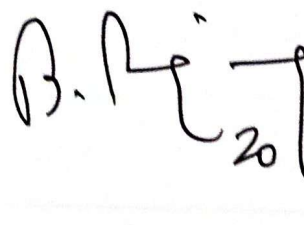
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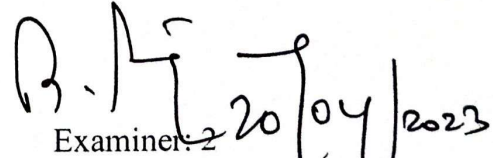
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Examiner: 1


Examiner: 2 20/04/2023

CERTIFICATE

This is to certify that of the dissertation, entitled " INVESTIGATION ON STRUCTURAL AND OPTICAL PROPERTIES OF PURE CuO AND M-COMPOSITES CuO (M=Ca, Fe, Sn) ", submitted to the Sacred Heart College (Autonomous), Tirupattur in partial fulfillment of the requirements for the award of the Degree of Master of Science in Physics is a record of original research work done by **PREETHI. G (BP210329)** during the period of 2022-2023 of his study in the Department of Physics at Sacred Heart College (Autonomous), Tirupattur, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree or other similar title to any candidate of any colleges and Universities/Instituiton.

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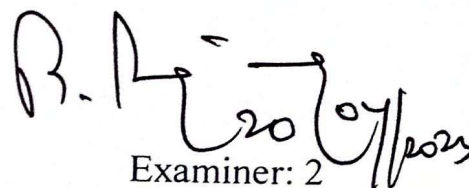


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Examiner: 1



Examiner: 2