

S4. Internships/IPT/Project Work – Certificates

Programme Name	Programme Code	Reg.No.	Name	Title Of Internships/IPT/Project Work	Name of the partnering institution/ industry/research lab with contact details
M.Sc Physics	PH02	BP200301	K. ARUL SELVI	STRUCTURAL AND OPTICAL CHARACTERIZATION OF PURE AND Na DOPED Zns NANOPARTICLES SYNTHESIZED BY CO-PRECIPIATION METHOD	Sacred Heart College(Autonomous). Tirupattur.
M.Sc Physics	PH02	BP200302	V.Priyadharshini	Simple Synthesis And Characterization Of Nickel Cobaltite (Nico2o4) And Its Composites (Nico2o4/AC,Nico2o4/G-C3N4) For Supercapacitor Application	Sacred Heart College(Autonomous). Tirupattur.
M.Sc Physics	PH02	Bp200303	Sagaya Francy F	Synthesis And Characterization Of Zinc Ferrite Nanoparticles From Moringa Olifera Leaf Extract Via Hydrothermal Method	Sacred Heart College(Autonomous). Tirupattur.
M.Sc Physics	PH02	BP200304	R.RITHIC KUMAR	Green Synthesis Of Copper And Nickel Oxide Nanoparticles Using Mysristica Fragrans Powder Extract	Sacred Heart College(Autonomous). Tirupattur.
M.Sc Physics	PH02	BP200305	NITHISH KUMAR S	Synthesis And Characterization Of Tantalum Doped Nd2O3	Sacred Heart College(Autonomous). Tirupattur.
M.Sc Physics	PH02	BP200306	P.Deepa	Structural And Optical Characterization Of Pure And Na Doped Zns Nanoparticles Synthesized By Hydrothermal Method	Sacred Heart College(Autonomous). Tirupattur.
M.Sc Physics	PH02	BP200307	JUBI INITHA MARY.K	STUDY ON STRUCTURAL, MORPHOLOGICAL, OPTICAL PROPERTIES AND ANTIBACTERIAL ACTIVITY OF Zno NANOPARTICLES	Sacred Heart College(Autonomous). Tirupattur.
M.Sc Physics	PH02	BP200309	R. POOJASRI	Synthesis And Characterization Of Tio2 Nanoparticles.	Sacred Heart College(Autonomous). Tirupattur.

M.Sc Physics	PH02	BP200310	S Jayashree	Growth And Characterization Of (2E)-2-(3,4-Dimethoxybenzylidene)-3,4-Dihydronaphthelene-1(2H) ONE (DMP) Crystals	Sacred Heart College(Autonomous). Tirupattur.
M.Sc Physics	PH02	BP200311	Irine Maria Bincy F	Synthesis And Characterization Of Pure And Cobalt Doped Bifeo3 Nanoparticles	Sacred Heart College(Autonomous). Tirupattur.
M.Sc Physics	PH02	BP200312	B.R.JANANI	Effects Of Dynamic Shock Waves On Tin Oxide Nanoparticles	Sacred Heart College(Autonomous). Tirupattur.
M.Sc Physics	PH02	BP200313	Sethu Raj A K	Growth And Characterization Of Bis(4-Methoxybenzylammonium) Tetra-chloridozincate Crystal	Sacred Heart College(Autonomous). Tirupattur.
M.Sc Physics	PH02	BP200314	Ezhilarasan M	SYNTHESIS AND CHARACTERIZATION OF Mos2 AND Moo3 NANOPARTICLES	Sacred Heart College(Autonomous). Tirupattur.
M.Sc Physics	PH02	BP200315	VIJAY G M	Crystal Growth And Analysis Of Metal Halide Perovskite Crystal	Sacred Heart College(Autonomous). Tirupattur.
M.Sc Physics	PH02	BP200316	Sowmiya. P	Synthesis And Characteristic Of Cerium Oxide/Niobium Oxide Nanocomposite By Coprecipitation Method	Sacred Heart College(Autonomous). Tirupattur.
M.Sc Physics	PH02	BP200317	V.UDHAYAKUMAR	Synthesis And Characterization Of Iron And Nickel Oxide Nanoparticles Using Ficus Religiosa Bark Extract	Sacred Heart College(Autonomous). Tirupattur.
M.Sc Physics	PH02	BP200318	MARY BIBIYANA G	Synthesis And Caracterization Of Pure And Mn Doped Bismuth Ferrite Nanoparticles By Sol-Gel Method	Sacred Heart College(Autonomous). Tirupattur.
M.Sc Physics	PH02	BP200319	Arivuchezhiyan R A	Synthesis And Characterization Of γ -Al ₂ O ₃ , β -Al ₂ O ₃ /AC, G-C ₃ N ₄ Nanocomposites For Photocatalytic Application	Sacred Heart College(Autonomous). Tirupattur.
M.Sc Physics	PH02	BP200320	V.Abirami	Synthesis, Structural Characterization And Dielectric Behavior Of Mgo And Mgo/Sio2 Nanocomposites	Sacred Heart College(Autonomous). Tirupattur.

M.Sc Physics	PH02	BP200321	Renugopal.U	Mineralogical Traces Of Archaeological Potteries Samples Excavated From Valasai Village, Vellore District, Tamilnadu, India	
M.Sc Physics	PH02	BP200322	T.MENISHA	Synthesis Of CH/PG Tio2 Nanoparticle Mediated Hydrogel For Biomedical Applications	Sacred Heart College(Autonomous). Tirupattur.
M.Sc Physics	PH02	BP200323	Madhumathi.M	Structural, Magnetic And Impedance Analysis Of A-Mn2O3 And A- Mn2O3/Sio2 Nanocomposites	Sacred Heart College(Autonomous). Tirupattur.
M.Sc Physics	PH02	BP200325	B.NITHYA	Synthesis Of Tio2 Thin Film For Antibacterial Applications	Sacred Heart College(Autonomous). Tirupattur.
M.Sc Physics	PH02	BP200326	S.DINESH	Synthesis And Characterization Of Nd2o3/Go Nanocomposites	Sacred Heart College(Autonomous). Tirupattur.
M.Sc Physics	PH02	BP200327	Megana.G	Synthesis, Growth And Charateristics Of L- Tyrosine Guanidine Carbonate Single Crystal.	Sacred Heart College(Autonomous). Tirupattur.
M.Sc Physics	PH02	BP200328	S.AASIF AHMED	The Spectroscopic Analysis Using The Characteristic Of Archaeological Artifacts Excavated From Aneeri Village, Tamil Nadu, India	
M.Sc Physics	PH02	BP200329	JAYATHARUNI SN	Effect Of High Pressure On Bismuth Oxide Nanoparticles (Bi2o3).	Sacred Heart College(Autonomous). Tirupattur.



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CERTIFICATE

This is certify that of the dissertation, entitled “**STRUCTURAL AND OPTICAL CHARACTERIZATION OF PURE AND Na DOPED ZnS NANOPARTICLES SYNTHESIZED BY CO-PRECIPIATION METHOD**”, 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. K. ARUL SELVI (REG. NO: BP200301)** during the period of 2021-2022 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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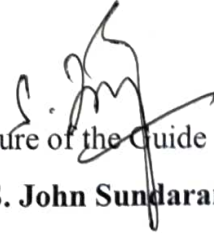
This is to certify that the the dissertation, entitled “**Simple Synthesis and characterization of Nickel Cobaltite (NiCo₂O₄) and it’s composites (NiCo₂O₄/AC, NiCo₂O₄/g-C₃N₄) for supercapacitor application**” submitted to sacred heart college(Autonomous) , Tirupattur in partial fulfillment of the requirements for the award of the Degree of Master of Science in Physics is a record of original research work done by **V.PRIYADHARSHINI (Reg no: BP200302)** during the period of 2020-2022 of her study in 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.



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Internal Examiner

CERTIFICATE

This is to certify that the dissertation, entitled "SYNTHESIS AND CHARACTERIZATION OF ZINC FERRITE NANOPARTICLES USING MORINGA OLEIFERA LEAF EXTRACT VIA 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 Ms. F. SAGAYA FRANCY (REG. NO: BP200303) from 2021 to 2022 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 Of the dissertation, entitled " **GREEN SYNTHESIS OF COPPER AND NICKEL OXIDE NANOPARTICLES USING MYSRISTICA FRAGRANS POWDER 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 **R. Rithic Kumar(REG. NO: BP200304)** 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/Instituion.


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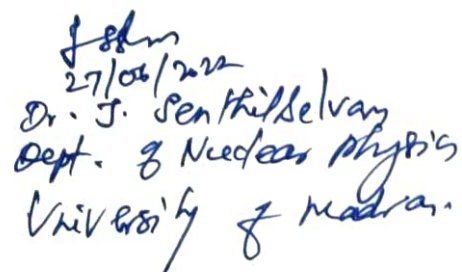
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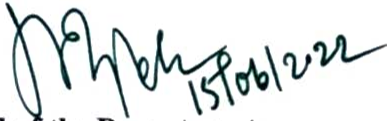
SACRED HEART COLLEGE (AUTONOMOUS)

TIRUPATTUR – 635 601

JUNE 2022

CERTIFICATE

This is to certify that the dissertation entitled “**SYNTHESIS AND CHARACTERIZATION OF TANTALUM DOPED Nd₂O₃**” submitted to the Sacred Heart College (Autonomous), Tirupattur in the fulfillment of the requirements for the award of degree of Mater of Science in Physics is a record of original work done by **NITHISH KUMAR S (BP200305)** during the period (2021-2022) 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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CERTIFICATE

This is certify that of the dissertation, entitled “STRUCTURAL AND OPTICAL CHARACTERIZATION OF PURE AND Na DOPED ZnSe NANOPARTICLES SYNTHESIZED BY HYDROTHERMAL METHOD”, 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. P. DEEPA (REG. NO: BP200306) during the period of 2021-2022 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.

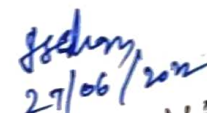

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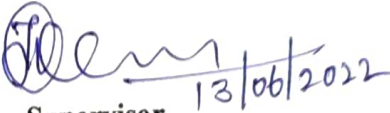

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CERTIFICATE

This is to certify that the dissertation entitled "STUDY ON STRUCTURAL, MORPHOLOGICAL OPTICAL PROPERTIES AND ANTIBACTERIAL ACTIVITY OF ZnO NANOPARTICLES" submitted to the Sacred Heart College (Autonomous), Tirupattur in partial fulfillment of the requirements of the award of the Degree of Master of Science in Physics is a record of original research work done by **JUBI INITHA MARY.K (BP200308)**, during the period 2021-2022 of her study in the Department of physics, Sacred Heart College, Tirupattur under my supervision and guidance. No part of this dissertation has been submitted for the award of any other Degree, Diploma, Fellowship or other similar titles to any candidate in any University.

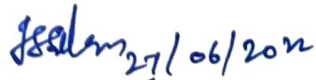

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CERTIFICATE

This is to certify that the dissertation, entitled “**Synthesis and Characterization TiO₂ Nanoparticles**”, 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 **R.POOJASRI, (REG.NO: BP200309)** during the period of 2020-2022 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.


Signature of the HOD

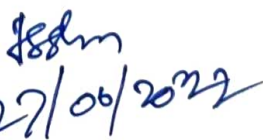
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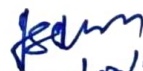
CERTIFICATE

This is certify that of the dissertation, entitled "**Growth and Characterization of (2E)-2-(3,4-Dimethoxybenzylidene)-3,4-dihydronaphthalen-1(2H)-one(DMP) 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 **Jayashree.S (BP200310)** during the period 2021-2022 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/Instituion.


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N. Madhavan
Research Supervisor

(Prof. N Madhavan)

CERTIFICATE

This is to certify that the dissertation entitled "SYNTHESIS AND CHARACTERIZATION OF PURE AND COBALT DOPED BiFeO₃ NANOPARTICLES" was 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 **F.IRINE MARIA BINCY (BP200311)** during the period (2020-2022) 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.



Head of the Department

Dr. M. Jose

Assistant Professor of Physics

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Research Supervisor

Mr. D. Rajkumar

Assistant Professor of Physics

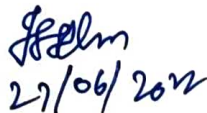
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(Mr. D. Rajkumar)

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CERTIFICATE

This is certify that Of the dissertation, entitled "**EFFECTS OF DYNAMIC SHOCK WAVE ON TIN OXIDE NANOPARTICLES**", 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. B. R. JANANI (REG. NO: BP200312)** during the period of 2021-2022 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 Instituiton.


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CERTIFICATE

This is certify that of the dissertation, entitled "**Growth and Characterization of Bis(4-methoxybenzylammonium) Tetrachloridozincate 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 **Sethu Raj A K (BP200313)** 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/Instituion.

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CERTIFICATE

This is to certify that the dissertation entitled “**SYNTHESIS AND CHARACTERIZATION OF MoS₂ AND MoO₃ NANOPARTICLES**” was 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 **M EZHILARASAN (BP200314)** during the period (2020-2022) 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.



Head of the Department

Dr. M. Jose

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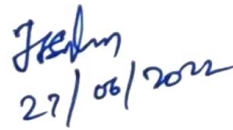


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Dr. J. Senthil Sivan

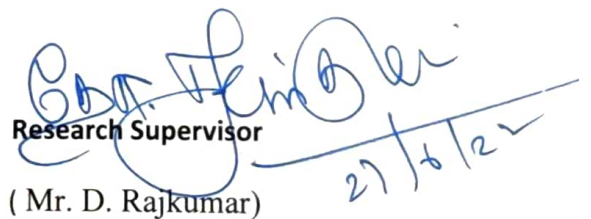
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Signature of the HOD

(Dr.M.Jose)



Research Supervisor

(Mr. D. Rajkumar)



SACRED HEART COLLEGE (AUTONOMOUS)

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CERTIFICATE

This is to certify that, the project titled "**Crystal Growth and Analysis of metal halide Perovskite crystal**" is bonafied record of work done by **Vijay G M (BP200315)** Sacred Heart College (Autonomous), Tirupattur (Tirupattur District) in partial fulfillment of the requirements for the award of the Degree of Master of Science during the period 2021-2022 under the Supervision and guidance of **Mr. L. Anandaraj M.Sc., M.Phil., B.Ed.,(Ph.D.)** Department of Physics, Sacred Heart College, Tirupattur and the dissertation has not formed the basis for the award of any Degree or other similar title to any candidate of any University.

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Dr. M. Jose
15/06/2022

Signature of the HOD

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CERTIFICATE

This is to certify that the dissertation, entitled "SYNTHESIS AND CHARACTERIZATION OF $\text{CeO}_2/\text{Nb}_2\text{O}_5$ NANOCOMPOSITES BY CO-PRECIPIATION 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 Mrs. P.SOWMIYA (REG. NO: BP200316) during the period of 2021-2022 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.



HoD of Physics (PG)

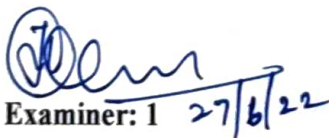
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27/6/22

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27/06/2022

Examiner: 2

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CERTIFICATE

This is to certify that the dissertation, entitled **“SYNTHESIS AND CHARACTERIZATION OF IRON AND NICKEL OXIDE NANOPARTICLES USING FICUS RELIGIOSA BARK 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 **UDHAYAKUMAR V, (REG. NO: BP200317)** during the period of 2020-2022 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.


15/06/2022

Signature of the HOD

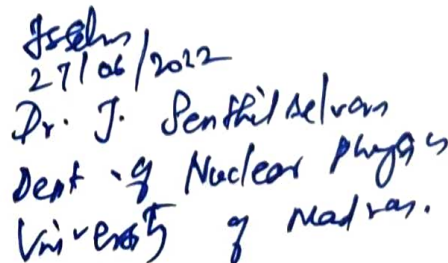
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CERTIFICATE

This is to certify that the dissertation entitled “**SYNTHESIS AND CHARACTERIZATION OF PURE AND Mn DOPED BiFeO₃ NANOPARTICLES BY SOL - GEL METHOD**” submitted to the Sacred Heart College (Autonomous), Tirupattur in the fulfillment of the requirements for the award of degree of Mater of Science in Physics is a record of original work done by **MARY BIBIYANA G (BP200318)** during the period (2020-2022) 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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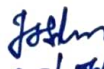
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Examiner 1


Examiner 2
27/6/22

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CERTIFICATE

This is certify that Of the dissertation, entitled "**Synthesis and characterization of " α -Al₂O₃, α -Al₂O₃/AC, g-C₃N₄ Nano composite for Photo catalytic Application**", 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 **Mr.R.A.ARIVUCHEZHIAN (REG. NO: BP200319)** during the period of 2021-2022 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/Instituion.


15/10/2022

Signature of the HOD

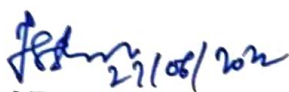
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CERTIFICATE

This is certify that Of the dissertation, entitled "**SYNTHESIS, STRUCTURAL CHARACTERIZATION AND DIELECTRIC BEHAVIOR OF MgO and MgO/SiO₂ NANOCOMPOSITES**", 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. V. ABIRAMI (REG. NO: BP200320)** during the period of 2021-2022 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/Instituion.

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CERTIFICATE

This is to certify that the dissertation, entitled “MINERALOGICAL TRACES OF ARCHAEOLOGICAL POTTERIES SAMPLES EXCAVATED FROM VALASAI VILLAGE, VELLORE DISTRICT, TAMILNADU, INDIA”, 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 **Y. RENUGOPAL, (Reg. No: BP200321)** during the period of 2020 – 2022 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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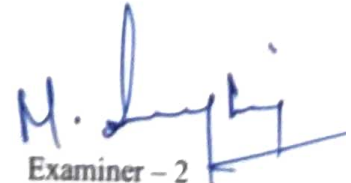
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Place: Tirupattur,

Date: 13.06.2022



Examiner - 1



Examiner - 2




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CERTIFICATE

This is to certify that the dissertation, entitled “**Structural, magnetic and impedance analysis of α - Mn_2O_3 and α - Mn_2O_3/SiO_2 nanocomposites**”, 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 **M.MADHUMATHI (REG.NO: BP200323)** during the period 2020-2022 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.

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This is to certify that the dissertation, entitled “**Synthesis of TiO₂ Thin film for Antibacterial Applications**”, 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. B.NITHYA, (REG.NO: BP200325)** during the period of 2020-2022 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.

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This is to certify that the dissertation entitled "SYNTHEIS AND CHARACTERIAZATION OF Nd₂O₃/GO NANOCOMPOSITES" submitted to the Sacred Heart College (Autonomous), Tirupattur in the fulfillment of the requirements for the award of degree of Mater of Science in Physics is a record of original work done by **S.DINESH (BP200326)** during the period (2020-2022) 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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External Examiner

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Internal Examiner

CERTIFICATE

This to certify that the dissertation, entitled **Synthesis, growth and characterization of L-tyrosine Guanidine Carbonate single 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 MEGANA G (REG.NO. BP200327) during the period of 2021-2022 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.

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Date



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(Prof. L. Anandaraj)

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Signature of the HOD
(Dr. M. Jose)


Signature of Research Guide
(Mr. M. Aravinthraj)


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Date: 13.06.2022


Examiner – 1

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Examiner – 2



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CERTIFICATE

This is certify that Of the dissertation, entitled "**EFFECT ON HIGHPRESSURE BISMUTH OXIDE NANOPARTICLES (Bi_2O_3)**", 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.S.N.JAYATHARUNI (REG. NO: BP200329)** during the period of 2021-2022 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/Instituion.

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