

### Personal information

1 Name : **Dr. A. SINTHIYA. M.Sc, M.Phil, Ph.D, TNSET**  
2 Father's Name : S. Arockiaswamy  
3 Date of Birth : 12.10.1978  
4 Gender : Female  
5 Nationality : INDIAN  
6 Religion : Roman Catholic  
7 Community : Backward class  
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12 Office Address : Assistant Professor, Department of Physics, St.Joseph's College  
(Autonomous), Trichy-620002, Tamilnadu, India

#### 13 Educational qualification

Qualifications Obtained	Institutions / Universities attended	From	To
SET	Tamil Nadu State Government	2018	-
Ph.D- PHYSICS	St.Joseph's College (Autonomous), Trichy-620002, Tamilnadu, India, / Bharathidasan University	Jan 2009	Aug 2013
MPhil -PHYSICS	Urumu Dhanalaksmi College, Trichy 620019, Tamil Nadu, India / Bharathidasan University	Aug-2003	April-2006
MSc- APPLIED PHYSICS (COMPUTER ELECTRONICS)	Urumu Dhanalaksmi College, Trichy 620019, Tamil Nadu, India / Bharathidasan University	Jun 1999	Apr 2001
B.Sc - (PHYSICS)	Holy Cross College (Autonomous), Trichy-620002, Tamil Nadu, India / Bharathidasan University	Jun 1996	May 1999

14 Teaching experience:  
 Both UG & PG : 22 years  
 Ph.D & M.Phil: 08 years

S.No	Duration		Position Held	Name of the Institution
	From	To		
1	17-06-2019	Till date	ASSISTANT PROESSOR	DEPARTMENT OF PHYSICS, ST. JOSEPH'S COLLEGE, TRICHY-620002, TAMIL NADU, INDIA
2	01-09-2014	31-05-2019	ASSOCIATE PROFESSOR	DEPARTMENT OF PHYSICS, SRIMAD ANDAVAN ARTS AND SCIENCE COLLEGE(Autonomous), TRICHY-620005
3	15-06-2011	20-06-2013	ASSISTANT PROFESSOR	DEPARTMENT OF PHYSICS, ST. JOSEPH'S COLLEGE, TRICHY-620002, TAMIL NADU, INDIA
4	16-06-2005	18-06-2010	ASSISTANT PROFESSOR	DEPARTMENT OF ELECTRONICS, ST. JOSEPH'S COLLEGE, TRICHY-620002, TAMIL NADU, INDIA
5	15-09-2003	30-04-2005	LECTURER	DEPARTMENT OF PHYSICS, VIVEKANANDA COLLEGE OF ARTS AND SCIENCE FOR WOMEN, ELEYAMPALAYAM, NAMAKKAL, TAMIL NADU, INDIA
6	11-12-2001	18-09-2003 Break: May 2002, May 2003	ASSISTANT PROFESSOR	DEPARTMENT OF PHYSICS, URUMU DHANALAKSHMI COLLEGE, TRICHY-19, TAMIL NADU, INDIA

### Academic growth

#### 1. Awards received

S.No	Details	Award
1	College Management & Dr. T.V. Antony Research Award in Science 2021-2022	Research Award
2	College Management & Dr. T.V. Antony Research Award in Science 2022-2023	Research Award
3	Synthesis and characterization of biphenyl sodium thiocyanide crystal. <i>National conference on advanced functional materials.</i> PG & research Department of Physics, National college Date: 13.02.2020	III rd prize Poster presentation
4	A review on impact of information technology of physics education. <i>One day national seminar on Role of computer application in physics(NSRCAP-2013)</i> Department of Physics, Holy cross college(Autonomous), Trichy-2 <i>Date: 09-01-2013</i>	I st Prizes Best paper presentation
5	MSc- Applied Physics, Bharathidasan university, Trichy - 620024, Tamil Nadu,India.	University 4 <sup>th</sup> rank
6	Volunteer Artist during the year 1998-1999, Holy Cross College, Trichy 620002, Tamil Nadu, India	Volunteer Artist
7	NCC during the year 1996-1997	Best Cadet

#### 2. Book chapter publication

S.No	Details of Book chapter	
1	<i>Title</i>	Studies on 4-Aminopyridinium 5-Carboxypentanoate Monohydrate
	<i>Authors</i>	S. Alfred Cecil Raj , A. Sinthiya and Babu Varghese
	<i>Year</i>	2023
	<i>Name of the Book</i>	Progress in Chemical Science Research
	<i>Volume</i>	Vol. 7
	<i>Chapter details</i>	Chapter 4
	<i>DOI</i>	10.9734/bpi/pcsr/v7/18214D

	<i>Print ISBN</i>	978-81-19102-32-7
	<i>eBook ISBN</i>	978-81-19102-39-6

3. Book Published

S.No	Details	
1	Title	: Allied Physics
	Authors	: Dr.A.Sinthiya, Associate Professor, Department of Physics, Srimad Andavan Arts and Science College (Autonomous), Trichy 5 Dr.S.Arumugam, Professor & Coordinator of Center for High Pressure research, Department of Physics, Bharathidasan University, Trichy 24
	Year	: 2019
	Publishers	: Sam Publishers , Chennai (State Publication)
	ISBN No	: 978-93-877482-1-7

4 Membership in Professional bodies

S.No	Details	Period / Duration
1	INDIAN CRYSTALLOGRAPHIC ASSOCIATION (LM649), Indian Institute of Science, Bangalore 560 012	Life time member
2	MRSI, Indian Institute of Science (LMB2500), Bangalore 560 012	Life time member
3	Indian Physics Association,(GEN/LM/13296) BARC,Mumbai	Life time member

5 Position held

1. Examiner in M.Phil and PG valuation in Bharathidasan University Examination
2. DC member in Department of Physics, Govt arts college for women, Pudukkottai
3. Editorial Board member in the International Journal of Pure and Applied Physics (IJPAP)
4. Class representative during the year 1997-1998

6 Resource person

S.No	Title	Organizer and Place	Period / Duration
1	Special common	JASS,	07-03-2023

	mentoring for I UG students on 'Goal setting'	St.Joseph's College (A), Trichy 620002, Tamilnadu.	
2	Crystal Physics and Visualization of intermolecular interaction in molecular crystals	Association Meeting, Department of Physics, Kalaingar Karunanidhi Government Arts College for Women (A), Pudukkottai-622 001	30-04-2022
3	Grading system, Universal system or diversified system	4-day International conference on examination-IDEA 2021- International debate on Examination & Assessment - 2021(Online) Organized by Council of examiners-India, and skillslate foundation, Pune	8-06-2021 To 11-06-2021
4	Crystallography	Department of Physics, Sri Saradha college for women, Perambalore-621 113	31-01-2019
5	Superconductors & magnetic materials	PG and Research Department of Physics, Holy Cross College (Autonomous), Trichy – 620 002	23-08-2018
6	Three day special lectures program for P.G Physics teachers, sponsored by TNSCST, Chennai & New Delhi	Office of the Deans, St. Joseph's College, Trichy- 620002	12-11-2009 To 14-11-2009

7. Refresher course

S.No	Details	Organizer	Grade obtained	Date
1	Online two week refresher course in PHYSICS	Teaching Learning Center, Ramanujan College, University of Delhi. In collaboration with Department of Physics, Harish Chandra Post Graduate College, Varanasi, Utter Pradesh and Department of Physics, Hemavati Nanden Bahuguna Garhwal University, Srinagar, Garwal, Utterkhand. Under the aegis of Ministry of Education. Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching	A	27-10-2021 To 10-11-2021  14 days

8. Faculty Development Program

S.No	Details	Organizer	Date
1	Academic research writing	St.Joseph's College (Autonomous), Tiruchirappalli-2, Tamilnadu	22-07-2023
2	Maximizing Learning Engagement	Internal quality assurance cell, St.Joseph's College (Autonomous), Tiruchirappalli-2, Tamilnadu	11-03-2023
3	Carbon capture and storage	UGC-STRIDE Sponsored , Department of Chemistry, Central University of Tamil Nadu, Thiruvarur.	21-02-2022 To 25-02-2022
4	Nurturing educational leadership	St.Joseph's College (Autonomous), Tiruchirappalli-2, Tamilnadu	11-12-2021
5	Preparing E-Content for MOOCs on SWAYAM	St. Joseph's College, Trichy	23-10-2021
6	Open educational resources- Search, identify, repurpose and create your OER	St.Joseph's College (Autonomous), Tiruchirappalli-2, Tamilnadu	25-09-2021
7	Online Elementary FDP- Quantum computing and quantum cryptography	St. Joseph's College, Trichy	7-06-2021 To 11-06-2021 5 days
8	FDP on Advanced materials for energy storage applications	Faculty of science, Department of Physics, Velammal Institute of Technology	18-07-2020 To 22.07.2020 5 days
9	Quantum computing MOOC test attended Score: 47%	NPTEL online course, SWAYAM	Jul-Oct 2019 12 weeks
10	Know your IPR, Towards Excellence through meditation	Internal quality assurance cell, Srimad Andavan Arts and Science College (Autonomous), Trichy-5	02-03-2019

9 Course completed

S.No	Title	Organizer and Place	Period / Duration
1	International Virtual School on Ion Beams in Material Science (IBMS-2020)	IUAC, New Delhi	01-12-2020 To 05-12-2020

2	School “ECR Ion Source Technology: Opportunities and future challenges”	IUCR , New Delhi	05-11-2020 To 06-11-2020
3	GIAN Course- ‘Crystal growth of functional and exotic materials’	Center for high pressure research, Department of Physics, Bharathidasan University, Trichy 620 024	06-08-2018 To 10-08-2018
4	Short term course on LaTeX- An Advanced formatting tool	Internal quality assurance cell & PG and Research department of mathematics, Srimad andavan arts and science college (Autonomous), Trichy – 620005.	01-02-2017 To 04-02-2017

## 10 Training Program

S.No	Title	Organizer and Place	Period / Duration
1	Moodle learning Management system MOOC Test attended (Score: 21/40)	Bodoland University. This training is offered by the Spoken Tutorial Project, IIT Bombay, Funded by National Mission on Education through ICT, MHRD, Govt. Of India	11-05-2020 To 15-05-2020
2	Python 3.4.3	Loyola college of arts and science, Mettala This training is offered by the Spoken Tutorial Project, IIT Bombay, Funded by National Mission on Education through ICT, MHRD, Govt. Of India	27-04-2020 To 30-04-2020
3	Soft skill programme	Joseph academy of soft skills (JASS), St. Joseph’s College (Autonomous), Trichy - 620002	10 days - Between Aug 2012 and Oct 2012

### Research activity

1. Scopus details : Scopus h-index: 05  
Scopus id:  
<http://www.scopus.com/inward/authorDetails.url?authorID=23995969800&partnerID=MN8TOARS>
2. Research guidance :
  - a. Ph. D Degree guidance:
    1. Degree awarded: 02
    2. Ongoing : 03

S.No	Name	Reference No	Status
1	M.Renugadevi	17423/PhD,-K3/Physics/Part-time/July 2016	Doing
2	S.Mohanraj	08882/PhD/Physics/Part time/April 2017	Doing
3	P.Jeyanthi	08883/Ph.D.K3/Physics/Part Time/ April 2017	Doing

- b. M.Phil Guidance:  
Degree awarded-11

### 3. Funded project

S.No	Title of the project	Major/Minor	Funding agency	Status /Year
1	Synthesis, crystallography and characterization of the 2-aminopyridine complex containing L-aspartic acid, L-glutamic acid, L- Leucine and L- tyrosine	Minor	UGC	Completed 2017-2018
2	“Effect of ion fluency in Alkali Hydrogen Phthalate thin film, with histidine and lactic acid impurities, to enhance Second harmonic generation (SHG)”	Major Project with fellowship	UGC DAE CSR	Ongoing 2022-2025

### 4. Funded Project guidance

S.No	Name of the students	Funding agency	Duration	Amount	Status
1	Ms. S. Sowmiya (MSc-Physics)	TNSCST	2021-2022	Rs. 7500/-	Completed



2	Ms.A.Rubika (MSc-Physics)				
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5. **Funded Conference organized**

S. No	Title	Role	Organizer and Place	Period / Duration	Sponsors	Status
1	National Conference On “Recent trends in nano and bulk superconducting & magnetic materials”	Convenor	PG&Research Department of Physics, Srimad Andavan Arts and Science College(Auto-nomous) Trichy 620005.	20.12.2018 & 21.12.2018	Tamil Nadu state council for science and technology (TNSCST) Tamil Nadu state council for Higher education (TANSCHE)	Conducted

6. **Acted as reviewer**

- i. Heliyon, Manuscript Number: HELIYON-D-23-05714
- ii. Optical and Quantum Electronics, ID 7075445f-dfb9-4138-98bf-708d6d98f522
- iii. Materials today proceedings, Totally 20 articles, from 2020-2022
- iv. Crystal research and Technology, Totally 02 articles
- v. Medicinal Chemistry Research, Totally 03 articles
- vi. SCANNING, Totally 01 article

7. **Paper Publications**

**7.1 Scopus Indexed Journals**

1. Oxalic acid incorporated acetamide single crystal growth dynamics, characterization, NLO and antimicrobial activities via shock wave treatment, Results in Chemistry Volume 5, (January 2023), 100790
2. Temperature effect on potassium nitrate-tricine nanoparticles synthesis to enhance third order optical nonlinearity, Topics in Catalysis, volume 65, (June 2022), pages1686–1699
3. Growth dynamics of sodium nitrate incorporated acetamide crystals biomedical profile: Anticancer, Antidiabetic, antioxidant activities. Journal of Molecular structure , Vol: 1250, 131907, Year:2022, DOI : 10.1016/j.molstruc.2021

4. Effect of Ar<sup>+</sup> ion implementation to enhance non-linear optical property on the L-Proline –doped Potassium hydrogen phthalate single crystals, *J.Matr.Sci: Mater Electron* , (Springer Nature), 2021, DOI: 10.1007/s10854-021-07160-2
5. Growth dynamics and spectroscopic characterization strategies of L-Proline doped Potassium hydrogen phthalate single crystal structure avenue, Vol: 1249,131647, Year: 2022, DOI: [10.1016/j.molstruc.2021.131647](https://doi.org/10.1016/j.molstruc.2021.131647)
6. Single crystal X-ray diffraction, Hirshfeld surface analysis and DFT studies of Bis(L-Serinium) oxalate dihydrate (BLSOD), *Journal of Physics: Conference Series* 2070 (2021) 012099, IOP Publishing, DOI:10.1088/1742-6596/2070/1/012099
7. X-ray structure of 4-aminopyridinium – oxalate-oxalic acid-hydrate (1/1/0.5/0.5) and its characterization, (2021), *Materials Today: Proceedings*, Vol: 49(5),Page: 1702-1708,Year: 2022,DOI: 10.1016/j.matpr.2021.07.485
8. Vegetative voltaic cell from ethanolic leaf extract from *Prosopis juliflora* plant , *Materials Today Proceedings* , Vol: 49(5),Page: 1225-1229,Year: 2022, DOI: 10.1016/j.matpr.2021.06.293
9. Crystal structure and Hirshfeld surface analysis of 4-aminopyridinium thiocyanate–4-aminopyridine.(1/1),*Acta Cryst.* (2020). E76, 1535–1538
10. Growth and combined experimental and quantum chemical study of glycyl-L- Valine crystal. *Heliyon*, (2019), e01574,doi: 10.1016/j.heliyon.2019.e01574
11. Crystal growth and magnetic property of Tetrakis (4-aminopyridine-κN1) dichloridocopper(II) monohydrate serine crystals. *AIP Conference Proceedings* - 1942, 100018 (2018); <https://doi.org/10.1063/1.5028983>
12. Growth, spectral, density functional theory (DFT) and Hirshfeld surface analysis on 4-aminopyridinium adipate monohydrate nonlinear optical single crystal.*Materials Science-Poland.*(2018) 36(2) DOI: 10.1515/msp-2018-0010
13. Biosynthesis of Phytochemicals Coated Silver Nanoparticles Using Aqueous Extract of Leaves of *Cassia alata* – Characterization, Antibacterial and Antioxidant Activities, *International Journal of Pharmaceutical and Clinical Research* ISSN- 0975 1556, (2018); 10(5): 138-149
14. Synthesis, Crystal Structure, and Free Radical Scavenging Activity of 4-Aminopyridinium 3,5-Dinitrobenzoate. *Crystallography Reports*,(2017), Vol. 62, No. 7, pp. 1035–1040
15. Hydrogen bonding interaction of 4-AP metal complex with protein, *Acta Cryst.* (2017). A73, C402
16. 4-aminopyridinium 5-carboxypentanoate monohydrate, *Acta*

Cryst.(2012)E68,o2181

17. Microwave assisted Nano structured Tetrakis (4-aminopyridine) copper (II) Tetrachloro Cobaltate(II), Int.J.Chem Tech Res.( 2012),4(3)
18. 4-aminopyridinium 4-aminobenzoate dehydrate and 4-aminopyridinium nicotinate, Acta Cryst (2009), C65, page o361-o364
19. Bis(4-aminopyridinium) tetrachloridocobaltate(II), Acta Cryst. (2009), E65, page m521
20. Tetrakis(4-aminopyridine-  $\kappa$ N1) dichloridocopper(II)monohydrate,Acta Cryst (2008) E64, page m853-m854
21. Octaakis(4-aminopyridine)-1 $\kappa$ 4N1,2 $\kappa$ 4N1-aqua-2 $\kappa$ O- $\mu$  -carbonato-1:2  $\kappa$ 3O,O:O-dinickel(II) dichloride pentahydrate, Acta Cryst.(2008), E64,page m1436-m1437.
22. 4-aminopyridinium 4-aminobenzenesulfonate 4-ammoniobenzenesulfonate monohydrate, Acta Cryst (2008), E64, page o697-o698

## 7.2 UGC –CARE Journal

1. A comparative report on single crystal X-ray diffraction analysis, Hirshfeld surface analysis, density functional theory (DFT) and antimicrobial activity of glycinium oxalate. Journal of information and computational science,(2020) Volume 10, Issue 10
2. Ultrasound assisted synthesis, characterization and Nonlinear optical property of zwitterion L-glycine. Journal of Emerging Technologies and Innovative Research, 2019, Volume 6, Issue 4

## 7.3. Other Journals

1. Anti diabetic activity, Anticancer activity and  $\alpha$ -amylase enzyme inhibitory effect of Tetrakis (4- aminopyridine-  $\kappa$ N1 ) di chloride copper (II) monohydrate, [CuCl<sub>2</sub>(C<sub>5</sub>H<sub>6</sub>N<sub>2</sub>)<sub>4</sub>].H<sub>2</sub>O. Aegaeum Journal, ( 2020)Volume 8, Issue6
2. Synthesis and characterization of L-amino acid doped 2-aminopyridine co- crystals for anti cancer activity. Research Journal of Life Sciences, Bioinformatics, Pharmaceutical, and Chemical Sciences (RJLBPCS) (2019)754
3. Synthesis and characterization of L-amino acid doped 2-aminopyridine co- crystals using Powder XRD, FTIR and UV-Vis spectrum. *Elixir Crystal Research 128 (2019) 52798-52800 52798*
4. Synthesis and characterization of adipic acid based glycine crystals, Int.J.Res.Ins.,

(March 2017). Vol 4 (Issue 1), pp 36-39

5. Powder x-ray diffraction pattern and antimicrobial activity of butyl paraben (March 2017), Int.J.Res.Ins., Vol 4 (Issue 1), pp40-45 Publication
6. In-silico characterization for Multiple sclerosis: A special emphasis on Tetrakis (4-aminopyridine-kN1) dichloridocopper (II) monohydrate with sphingosine 1-phosphate lyase, Elixir Crystal Research (2015), 89, 36824- 36826.
7. Review-Smartphone Technology in Education and Research, Int.J.Res.Ins., (2015), Vol 2(Issue 1), 51-54.
8. Nature of Hydrogen Bonding in the Interaction of 4-Aminobenzoic, Nicotinic and Sulfonic Acids With 4-Aminopyridine, GJRA - GLOBAL JOURNAL FOR RESEARCH ANALYSIS, ISSN No 2277 – 8160, Volume-4, Issue-6, June-2015 ,pp-192
9. An Overview Of Intermolecular Hydrogen Bonding In The Structure Of Metallated 4-Aminopyridine Complexes, *PARIPEX - INDIAN JOURNAL OF RESEARCH*, ISSN 2250-1991 Volume 4, Issue 2, Feb 2015, pp 204
10. Swelling and Adhesive Property of Poly Vinyl Alcohol Hydrogels ,Int.J.Res.Ins., Vol 2 (Issue 2) (2015), pp.220-223
11. Graphene in nano electronic era – Review, Int.J.Res.Ins., (2014), Volume 1(Issue 2) 52-56
12. Synthesis and characterization of nano structured (4-aminopyridine) copper (II) acetate chloride. IOSR Journal of pharmacy, www.iosrphr.org, 2013, Vol- 3, Issue - 1, pp-31-36
13. Evaluation of micro structural parameters of the synthesized gamma TeO<sub>2</sub> nano crystals using XRD principles. The International Journal of Engineering and Science (IJES), 2012, Volume 1, Issue 1, Pages 22-29, ISSN: 2319-1813 ISBN:2319-1805
14. One dimensional tellurium in electronic domain-Prognostication, *Arch. Appl. Sci. Res.*, 2012, 4 (1):94-98
15. Synthesis and characterization of 4-aminopyridinium dl-alaninate, RETELL, ISSN 0973-404X, (2012) Vol 13, page 99-102
16. Comparative study of 4-aminopyridine based co-crystals using FTIR and UV spectrum, RETELL, ISSN 0973-404X, (2011) Vol 12, page 1-4
17. FESEM analysis of 4-aminopyridinium nitrate, RETELL, ISSN 0973-404X, (2012), Vol 12, (No 2), page 97-98

#### 7.4. M.Phil students project work published

1. Powder x-ray diffraction pattern of 4-aminopyridine based copper (II) sulphate crystals, Int.J.Res.Ins., (September 2017), Vol 4 (Issue 2), pp 94-97, ISSN 2348- 2095
2. Powder x-ray pattern analysis of 4-aminopyridine based copper (II) nitrate tri hydrate crystals, Int.J.Res.Ins., (September 2017), Vol 4 (Issue 2), pp 98-101, ISSN 2348-2095
3. Powder x-ray diffraction pattern of 4-aminopyridine based copper (II) acetate crystals, Int.J.Res.Ins., (March 2017), Vol 4 (Issue 1), pp 86-90 Publication
4. Powder X-ray diffraction pattern analysis of 4-aminopyridinium adipate. Elixir Crystallography, (2016), 97, 42044-42045

#### 7.5 M.S.c students project work published

1. Refractive index, UV-Visible spectrum, conductivity, surface tension and viscosity of aqueous glycine zwitterion, (March 2018), Int.J.Res.Ins., Vol 5 (Issue 1), pp 36- 41.
2. A comparative report on micro structural analysis, International journal of physics and applications, ISSN 0974-3103 Volume 5, Number 1 (2013), pp.1-5.
3. Synthesis and Characterization of  $3 [\text{Cu}(\text{C}_5\text{H}_6\text{N}_2)_2(\text{CO}_3)\cdot\text{H}_2\text{O}]$  Using Slow Method, PARIPEX - INDIAN JOURNAL OF RESEARCH, ISSN 2250-1991 Volume 2, Issue 4, April 2013., pp 309-311.

#### 8. Paper presentation in Seminar / Conference Proceedings

S.No	Details	State /National/ International
1	<b>FTIR Spectrum, uv-Vis Spectrum &amp; Biological activity in copper doped 4-aminopyridinium 5-carboxy pentanoate monohydrate.</b> TNSCST sponsored 3 <sup>rd</sup> International conference on recent advances in material science (ICRAMS-2022). Jointly organized by PG & Research Department of Physics, National College (Autonomous), Trichy and AVVM Sri Pushpam College (Autonomous), Poondi, Tanjavur. Date: 19-05-2022 To 21-05-2022	International Conference
2	<b>Molecular Docking and anticancer activity of L-Leucine doped 2-aminopyridine and copper doped 4-aminopyridine.</b> International Conference on Advanced Materials-2022 Department of Physics, St. Joseph's College, Trichy 2 Date: 11-02-2022 To 12-02-2022	International Conference

3	<p><b>Synthesis, molecular structure and theoretical calculation of 4-aminopyridinium 2-hydroxybenzoate crystals.</b>  <i>*Corresponding Author</i>  International Conference on Advanced Materials-2022  Department of Physics, St. Joseph's College, Trichy 2  Date: 11-02-2022 To 12-02-2022</p>	International Conference
4	<p><b>Growth and Characterization of nickel nitrate doped L-serine</b>  <i>*Corresponding Author</i>  International Conference on Advanced Materials-2022  Department of Physics, St. Joseph's College, Trichy 2  Date: 11-02-2022 To 12-02-2022</p>	International Conference
5	<p><b>Single crystal structure , computational study (DFT) and molecular docking studies of 4-chloro-1H-pyrazole</b>  <i>*Corresponding Author</i>  International Conference on Advanced Materials-2022  Department of Physics, St. Joseph's College, Trichy 2  Date: 11-02-2022 To 12-02-2022</p>	International Conference
6	<p><b>Preparation and characterization of reduced graphene oxide activated carbon in sesamol seed oil environment</b>  <i>*Corresponding Author</i>  International Conference on Advanced Materials-2022  Department of Physics, St. Joseph's College, Trichy 2  Date: 11-02-2022 To 12-02-2022</p>	International Conference
7	<p><b>Preparation of nickel nitrate doped zinc oxide thin film and its characterization</b>  <i>*Corresponding Author</i>  International Conference on Advanced Materials-2022  Department of Physics, St. Joseph's College, Trichy 2  Date: 11-02-2022 To 12-02-2022</p>	International Conference
8	<p><b>Vegetative voltaic cell from ethanolic leaf extract from Prosopis juliflora plant.</b>  <i>2021 Global Conference on Recent Advances in Sustainable materials (GCRAM 2021)</i>  AJ Institute of Engineering and Technology , Mangalore, India  Date:20-07-2021 to 30-07-2021</p>	International Conference
9	<p><b>X-ray structure of 4-aminopyridinium – oxalate-oxalic acid-hydrate (1/1/0.5/0.5) and its characterization</b>  <i>2021 Global Conference on Recent Advances in Sustainable materials (GCRAM 2021)</i>  AJ Institute of Engineering and Technology , Mangalore, India  Date:20-07-2021 to 30-07-2021</p>	International Conference
10	<p><b>Single crystal X-ray diffraction, Hirshfeld surface analysis and DFT studies of Bis(L-Serinium) oxalate dihydrate (BLSOD)</b>  <i>2021 Second International Conference on Advances in Physical Sciences and Materilas (ICAPSM 2021)</i></p>	International Conference

	Coimbatore , India <i>Date: 12-08-2021 to 13-08-2021</i>	
11	<b>Synthesis and characterization of biphenylsodium thiocyanide crystal.</b> <i>National conference on advanced functional materials.</i> PG & research Department of Physics, National college, Trichy <i>Date: 13.02.2020</i>	National Conference
12	<b>Crystal structure, hirshfeld and DFT of Butyl Paraben crystal.</b> National conference on crystallography, docking and charge density(NCCD-2019) PG & Research Department of Physics, Sri Vijaya Vidyalaya College of arts and science, Dharmapuri, Tamil Nadu. <i>Date: 20-09-2019 to 21-09-2019</i>	National Conference
13	<b>Synthesis , characterization and DFT studies of 2-aminopyridinium leucinate co-crystal for anticancer activity.</b> International web conference on advanced materials (IWCAM 2019) Department of Physics, St.Joseph's College (Autonomous), Trichy 620002 <i>Date: 28-022019 to 01-03-2019</i>	International Conference
14	<b>Refractive index , UV-Visible spectrum - Amino acid</b> <i>Two days International conference (ICONNECT2K18),</i> K.Ramakrishna College of Technology, Trichy <i>Date: 23-03-2018 to 24-03-2018</i>	International Conference
15	<b>Phase transition in ammonium di hydrogen orthophosphate crystals – effect of various molar concentration of amino acid.</b> <i>MRSI National Symposium on “Advances in Functional and Exotic Materials”</i> The Symposium is jointly organized by MRSI – Trichy Chapter and the Centre for High Pressure Research, Bharathidasan University, Tiruchirappalli. <i>Date:14-02-2018 to 16-02-2018</i>	National Symposium
16	<b>A study of the Interaction of 4-aminopyridine with polyvinyl alcohol using FTIR spectrum and SEM.</b> <i>National Conference on Frontier Areas in Applied Physics (NCFAAP-2016)</i> Engineering Physics, FEAT, Annamalai University, Annamalainagar-2 <i>Date: 27-04-2016</i>	National Conference
17	<b>Crystal growth and characterization of D-Valine zwitterion molecule</b> <i>National conference on Advanced materials</i> Department of Physics, St.Joseph's College (Autonomous), Trichy 2. <i>Date: 07-10-2016</i>	National Conference

18	<p><b>Study of Nature of intra molecular hydrogen bonds in hexa (4-aminopyridine)tris copper (II) carbonate tri hydrate using single crystal X-ray diffraction.</b></p> <p><i>International Conference on Crystal Growth &amp; Biomolecular crystallography (ICCGBC-2014)</i>  SASTRA University, Thanjavur.  Date: 28-11-2014 to 29-11-2014</p>	International Conference
19	<p><b>A review on impact of information technology of physics education.</b></p> <p><i>One day national seminar on Role of computer application in physics(NSRCAP-2013)</i>  Department of Physics, Holy cross college(Autonomous), Trichy-2  Date: 09-01-2013</p>	National Seminar
20	<p><b>Extraction of nano and different forms of TeO<sub>2</sub> at different condition.</b></p> <p><i>UGC,DST, BRNS,CSIR &amp; TNSCST sponsored</i>  <i>National seminar on new material research and nano technology (NSNMRN2012)</i>  Department of Physics, Government arts college, Udthagamandalam, The Nilgiri, Tamilnadu, India.  Date: 12-09-2012 to 14-09-2012</p>	National Seminar
21	<p><b>Spectral analysis of 4-aminopyridinium nitrate Nano Particles.</b></p> <p><i>DRDO sponsored National conference on Emerging Dimension in Renewable Energy &amp; Nano Science</i> Department of physics, Jeyaram College of Engineering &amp; Technology, Pagalavadi, Karattampati, Trichy-14.  Date:19-08-2011 to 20-08-2011</p>	National Conference
22	<p><b>X-Ray diffraction studies and spectral analysis of Bis(4-aminopyridinium) tetrachloride cobaltate(II)</b></p> <p><i>NSRTP 2011,</i>  Department of Physics, Shivani Engineering College, Trichy – 9  Date:18-03-2011 to 19-03-2011</p>	National Conference
23	<p><b>Microwave assisted nanostructured 4-aminopyridine adduct crystals.</b></p> <p><i>INDO-US workshop and International conference</i> Department of Physics, St. Joseph's College(Autonomous) Trichy-2  Date: 12-01-2011 to 14-01-2011</p>	International conference
24	<p><b>Growth and Characterization of Nanocrystals for medicinal applications.</b></p> <p><i>DST, BRNS &amp; CSIR Sponsored</i>  <i>National level conference on Nanomaterials</i>  Department of Physics, Karunya University, Coimbatore.  Date:17-10-2008 to 18-10-2008</p>	National level
25	<p><b>Potential application of nanotechnology in the field of</b></p>	National



	<p><b>medicine.</b>  <i>UGC sponsored National level conference</i>  Department of Electronics, Erode Arts College, Erode-9 Date:29-08-2008 to 30-08-2008</p>	Conference
26	<p><b>Growth and structural studies on protonated molecule-4-aminopyridinium nicotinate</b>  <i>(Co- Author)</i>  TNSCST &amp; TANSCHÉ sponsored National Conference on Recent Trends in Nano and Bulk Superconducting &amp; Magnetic Materials (RTNBSMM18),  Date:20-12-2018 To 21-12-2018</p>	National Conference
27	<p><b>Ethanol extract of south Indian herbal Aloe Vera treated with copper II chloride monohydrate for enhanced antimicrobial activity</b>  <i>(Corresponding Author)</i>  TNSCST &amp; TANSCHÉ sponsored National Conference on Recent Trends in Nano and Bulk Superconducting &amp; Magnetic Materials (RTNBSMM18),  Date:20-12-2018 To 21-12-2018</p>	National Conference
28	<p><b>Growth And Characterization of Butylparaben - sodium chloride(1:1)</b>  <i>(Corresponding Author)</i>  TNSCST &amp; TANSCHÉ sponsored National Conference on Recent Trends in Nano and Bulk Superconducting &amp; Magnetic Materials (RTNBSMM18),  Date:20-12-2018 To 21-12-2018</p>	National Conference
29	<p><b>Effect of ultrasound on L-Glycine single crystals and X- ray powder diffraction patterns of ultra-sonicated zwitterion L-Glycine single crystals</b>  <i>(Corresponding Author)</i>  TNSCST &amp; TANSCHÉ sponsored National Conference on Recent Trends in Nano and Bulk Superconducting &amp; Magnetic Materials (RTNBSMM18),  Date:20-12-2018 To 21-12-2018</p>	National Conference
30	<p><b>Stability of some metallic complexes of 4-Aminopyridine –review and powder x-ray pattern of common salt doped 4-Aminopyridine crystal</b>  <i>(Corresponding Author)</i>  TNSCST &amp; TANSCHÉ sponsored National Conference on Recent Trends in Nano and Bulk Superconducting &amp; Magnetic Materials (RTNBSMM18),  Date:20-12-2018 To 21-12-2018</p>	National Conference
31	<p><b>Powder XRD and FTIR spectrum of Acetamide potassium Hydrogen pthalate crystals</b>  <i>(Corresponding Author)</i>  TNSCST &amp; TANSCHÉ sponsored National Conference on</p>	National Conference

	Recent Trends in Nano and Bulk Superconducting & Magnetic Materials (RTNBSMM18), Date:20-12-2018 To 21-12-2018	
32	<b>Powder diffraction pattern analysis and FT-IR spectrum analysis of tetrakis (4-aminopyridine –kN<sup>1</sup>)-di chloride copper (II) monohydrate crystal</b> (Corresponding Author) MRSI National Symposium on “Advances in Functional and Exotic Materials” The Symposium is jointly organized by MRSI – Trichy Chapter and the Centre for High Pressure Research, Bharathidasan University, Tiruchirappalli. Date:14-02-2018 To 16-02-2018	National Conference
33	<b>Phase transitiuion in potassium hydrogen phthalate crystals-effect of various molar concentration of L-Glutamine.</b> (Corresponding Author) MRSI National Symposium on “Advances in Functional and Exotic Materials” The Symposium is jointly organized by MRSI – Trichy Chapter and the Centre for High Pressure Research, Bharathidasan University, Tiruchirappalli. Date:14-02-2018 To 16-02-2018	National Symposium
34	<b>Phase transition in potassium hydrogen phthalate crystals-effect of various molar concentration of L-Proline.</b> (Corresponding Author) MRSI National Symposium on “Advances in Functional and Exotic Materials” The Symposium is jointly organized by MRSI – Trichy Chapter and the Centre for High Pressure Research, Bharathidasan University, Tiruchirappalli. Date:14-02-2018 To 16-02-2018	National Symposium
35	<b>Powder X-ray diffraction pattern analysis of Hydronium adipate,</b> (Corresponding Author) 44th National Seminar on Crystallography (NSC-44), Institute of Science Education and Research (IISER), Pune- 411008, Maharashtra Date:10-07-2016 To 13-07-2017	National Seminar
36	<b>Invitro and insilico evidence based evaluation of synthesised crystal compound CuCl<sub>2</sub>(C<sub>5</sub>H<sub>6</sub>N<sub>2</sub>)<sub>4</sub> H<sub>2</sub>O</b> (Corresponding Author) 45 <sup>th</sup> National seminar on crystallography, Hindu banaras university, IITBHU, 09-07-2017 To 12-07-2017	National Seminar
37	<b>Powder X-ray diffraction pattern analysis of 4-aminopyridinium adipate.</b> (Corresponding Author) National Conference on Frontier Areas in Applied Physics (NCFAAP-2016) Engineering Physics, FEAT,	National conference

	Annamalai University, Annamalainagar-2 27-04-2016	
38	<b>Reduced morphological change in copper II Chloride in caprylic acid environment.</b> <i>(Corresponding Author)</i> National Conference on Frontier Areas in Applied Physics (NCFAAP-2016) Engineering Physics, FEAT, Annamalai University, Annamalainagar-2 Date:27-04-2016	National Conference

### 9. Virtual lecture series attended

S. No	Topic	Organizer	Speaker	Date
1	Webinar Series on Materials for energy and environment (WSMEE-22)-Event-1	Department of Physics, St. Josephs College (Autonomous), Trichy 2		24-09-2022
2	Webinar series on materials for energy and environment (WSMEE-22)- Event 2(Topic trends in water splitting)	Department of Physics, St. Josephs College (Autonomous), Trichy 2		03-11-2022
3	Webinar series on Materials for energy and environment (WSMEE-22)-Event 3 (Topic trends in advanced polymer materials)	Department of Physics, St. Josephs College (Autonomous), Trichy 2		19-12-2022
4	Advanced Materials- Webinar Series 2021(Event 4): Advances in Materials- Focus on Solar Energy	Department of Physics, St. Josephs College (Autonomous), Trichy 2		15-11-2021
5	Advanced Materials- Webinar Series 2021(Event 3): Recent Trends in LASAR material Processing	Department of Physics, St. Josephs College (Autonomous), Trichy 2		21-10-2021
6	Advanced Materials- Webinar Series 2021(Event 2): Material characterization using non destructive testing	Department of Physics, St. Josephs College		20-09-2021

		(Autonomous), Trichy 2		
7	Advanced Materials- Webinar Series 2021(Event 1): Superconductors	Department of Physics, St.Josephs College (Autonomous), Trichy 2		24-08-2021
8	Electrochemical energy storage technologies for electric vehicle application	Department of physics, Eswari engineering college, Chennai		09-07-2020
9	Magnetism and matter	Indian Association of Physics Teachers, Regional  Council (Delhi & Haryan a) and Delhi Science T eachers' Forum	Prof. Dipan Ghosh Guest Professor, CEBS, Mumbai (Formerly Professor of Physics, IIT Bombay)	01-08-2020 Virtual mode
10	Electrostatics-II	Indian Association of Physics Teachers, Regional  Counci l (Delhi & Haryan a) and Delhi	Prof. H.S.Mani, Adjunct Professor, Chennai Mathematical Institute , Kelambakkam (Formerly) Professor of Physics, IIT Kanpur and Director, Harish- Chandra Reseach Institute, Prayagraj (Alahabad))	25-07-2020 Virtual mode
11	Electrostatics -I	Indian Association of Physics Teachers, Regional  Council (Delhi & &	Prof. H.S.Mani, Adjunct Professor, Chennai Mathematical Institute  , Kelambakkam (Formerly Professor of Physics,	18-07-2020 Virtual mode

			Haryana) and Delhi  State Science  Teachers' Forum	IIT Kanpur and Director, Chandra Harish- Institute, Reseach Prayagraj (Alahabad))	
12	Wave optics- "Polarization"	II	Indian Association of Physics Teachers, Regional Council (Delhi & Haryana) and Delhi State Science Teachers' Forum	Prof. Rajaram Nityananda, Azim Premji University, Bengaluru (Formerly Director, National Center for Radio Astrophysics, TIFR, Pune and TIFR Centre for interdisciplinary Sciences, Hydrerabad	11-07-2020 Virtual mode
13	Asia Pacific Academy of Materials (APAM) Special Lecture Series		MRSI-Trichy Chapter & Center for High Pressure Research, Bharathidasan University , Trichy 24	Dr. V.M. Pillai (CECRI, Karaikudi), Dr. P. Ravindran (CUTN, Thiruvarur), Dr. T. N. Rao (ARC, Hyderabad), Dr. Samit K. Ray (S.B. Bose National centre for Basic Sciences, Calcutta), Prof. O. N. Srivastava (BHU, Varanasi)	13-02-2018

## 10 Workshop attended

S.No	Topic	Organizer	Date
1	DST & workshop ACS Virtual	Department of Science and Technology, Govt of India & American chemical society	28-07-2020 Virtual mode
2	Lecture workshop on Introduction to Density Functional Theory	P.G & Research Department of Physics, Government Arts College , Melur , Madurai	04-04-2019 To 05-04-2012
3	National workshop on "Theory and applications of single crystal X-ray diffraction" .	Sophisticated analytical instrument facility, Center for continuing education, Indian institute	08-11-2017 To 10-11-2017

		of technology, Madras	
4	Two day workshop on Powder X-ray diffraction data analysis	PG & Research department of Physics, Srimad andavan arts and science college (Autonomous), Trichy – 620005.	05-10-2017 To 06-10-2017
5	One day workshop on “ Teaching and research methodologies in Physics (TRMP-2016)”	School of Physics in association with Curriculum Development Cell (CDC), Madurai Kamaraj University, Madurai – 625021	25-10-2016
6	International conference and workshop on Advances in biomolecular sciences and analytical NMR	Department of Biochemistry, Chemistry and Physics, Srimad andavan arts and science college (Autonomous), Trichy – 620005.	25-08-2014 To 27-08-2014
7	3-day workshop on Single crystal X-ray diffraction and structure analysis	Sophisticated Instrumentation (STIC), Cochin. Test and Center	17-11-2011 To 19-11-2011
8	Workshop on Electron Microscopy,	Department of Physics, National Institute of Technology, Trichy,	04-11-2011 To 05-11-2011
9	Pre conference workshop on Advanced Material Processing, Characterization and Applications	Department of Physics, PSG College of Technology, Coimbatore	12-02-2009
10	National Workshop on Power Electronics (NWPE 2008)	Department of Electrical and Electronics Engineering , National Institute of Technology, Trichy, Under the aegis of Natinal Misson on Power Technology(NAMPET)	12-11-2008 To 14-11-2008
11	Workshop on Interpersonal skills for staff members	St. Joseph’s College (Autonomous), Trichy-620002.	03-03-2007 To 04-03-2007
12	Workshop on VLSI DESIGN USING FPGAS	Department of Electronics, St. Joseph’s College (Autonomous), Trichy- 620002.	03-03-2006

#### 11. Orientation / seminar / conference attended (Offline / online)

S.No	Details	State/ National/ International	Date
	<b><i>Orientation Program</i></b>		

1	Recent Trends in Higher education Organized by Internal quality assurance cell, St.Joseph's College (A), Trichy 2	State level	15-07-2022 To 16-07-2022
2	Orientation programme for Young Professors. Organized by Jesuit Higher Education Commission, Jesuit Madurai Province	State level	05-06-2019 To 07-06-2019
3	Orientation Programme for Junior staff, Organized by the Management of St. Joseph's College (Autonomous), Trichy	State level	11-06-2012 To 14-06-2012
4	Orientation Programme for Junior Staff, Organized by the Management of St. Joseph's College (Autonomous), Trichy	State level	13-06-2011 To 14-06-2012
5	Orientation Programme for Research Scholars, Organized by Research Advisory Committee (RAC), St.Joseph's College (Autonomous)., Trichy.	State level	18-01-2011
	<b><i>Seminar</i></b>		
1	Opportunities in Indo-German Bilateral Funding Programmes, Organized by the Department of Physics, School of Sciences, National Institute of Technology, Andra Pradesh & Indo German Science and Technology Center (IGSTC)	National	22-07-2020 Virtual mode
2	Electrochemical Energy Storage Technologies for Electric Vehicle Application, Organized by the Department of Physics, Easwari Engineering College, Chennai	National	09-07-2020 Virtual mode
3	Enhancing R,C and E (Research, Consultancy and Extension Activities , Organized by IQAC, Srimad Andavan Arts and Science College(Autonomous), Trichy	State level	27-09-2014
4	International Seminar and Workshop on Medical and Pharmaceutical Nanotechnology. Organized by Department of Pharmaceutical Technology, Anna University Tiruchirappalli, Trichy	International	25-09-2008 To 26-09-2008
	<b><i>Conference</i></b>		
1	International conference on Light matter interaction ICLMIN-2021, Organized by Indira gandhi center for atomic research , Kalpakam. (Virtual)	International	19-05-2021 To 21-05-2021
2	Supercapacitors and Batteries for Future Avenues (ICSBFA-2020), Conducted by Bharathidasan University, Trichy	International	08-09-2020 To 09-09-2020 Virtual mode
3	International Virtual Conference on Advanced	International	26-07-2020

	Materials for Energy and Environmental Applications ICAMEEA-2020, Conducted by Bharathidasan University, Trichy		To 27-07-2020 Virtual mode
4	2 <sup>nd</sup> International conference on structural and functional genomics, SASTRA University, Tanjavor	International	19-08-2016 To 20-08-2016
5	National Conference on Emerging Areas in Thin Film Science and Technology, Department of Physics, PSG College of Technology, Coimbatore	National	13-02-2009 To 14-02-2009
6	UGC Sponsored National Conference on Higher Education and National Development: The Challenge of Expansion, Quality and Inclusion, St. Joseph's College (Autonomous), Trichy	National	30-01-2009 To 31-01-2009
7	NAAC Sponsored National Conference on Quality Enhancement and Sustenance in Higher Educational Institutions through Six Sigma quality strategy, IQAC, St. Joseph's College (Autonomous), Trichy	National	23-10-2008 To 24-10-2008
8	The journey Within-Know yourself & Know the world, Organized by IQAA, St. Joseph's College, (Autonomous), Trichy	State	19-06-2020 Virtual mode
9	1-day Teacher's Conclave on 'Pursuing Excellence in Teaching', Organized by Good citizenship forum, SSN College of Engineering, Kalavallam, in association with Rajaji Center for Public Affairs, Chennai and ISTE, SSNCE chapter	National	7-01-2017

## 12 M.Phil Students Completed Project details

S.No	Title	Student detail	Year	Published in Journal
1	Hirshfeld Surface analysis of methylsulfonyloxyl radical single crystal	M.Banupriya, M18PH0001 Dept. Of Physics, Srimad andavan arts and science college, Trichy 5	Aug 2019	
2	Stability of some metallic complexes of 4-aminopyridine crystals	Y.Sumathi, M17PH0013 Dept. Of Physics, Srimad andavan arts and science college, Trichy 5	Aug 2018	Paper presented
3	Powder X-ray Pattern analysis of 4-aminopyridinebased Nickel chloride crystals	R.B.Mahesh, 2K16FT-16999 Dept. Of Physics, Srimad andavan arts and	Aug 2017	



		science college, Trichy 5		
4	Powder x-ray diffraction pattern of 4-aminopyridine based malonic acid crystals	P.Saranya, 2K16FT-17004 Dept. Of Physics, Srimad andavan arts and science college, Trichy 5	AUG 2017	
5	Powder x-ray pattern analysis of 4-aminopyridine based Copper (II)Acetate mono hydrate crystals	V. Ragavi, 2K16FT-17003 Dept. Of Physics, Srimad andavan arts and science college, Trichy 5	Aug 2017	Published
6	Powder x-ray diffraction pattern of 4-aminopyridinium based Copper (II) Sulphate crystals	A.Aarthy, 2K16FT-16994 Dept. Of Physics, Srimad andavan arts and science college, Trichy 5	Aug 2017	Published
7	Powder x-ray Pattern analysis of 4-aminopyridine based Copper (II) Nitrate Tri Hydrate crystals	R.Sowmiya Dept. Of Physics, Srimad andavan arts and science college, Trichy 5	Aug 2017	Published
8	Powder X-ray diffraction pattern analysis of 4-aminopyridinium adipate	P.Lalitha, 2K15FT-43928 Dept. Of Physics, Srimad andavan arts and science college, Trichy 5	Aug 2016	Published
9	Ultrasonic and theoretical studies of Ternary liquid mixtures at 303K	K.Nishad, 2K15FT-42929 Dept. Of Physics, Srimad andavan arts and science college, Trichy 5	Aug 2016	
10	Reduced morphological change in Copper (II) Chloride in caprylic acid environment	S.Preethi, 2K15FT-43931 Dept. Of Physics, Srimad andavan arts and science college, Trichy 5	Aug 2016	Paper presented
11	Synthesis and characterization of Zinc oxide thin films by spray pyrolysis technique	K.Jamnas, 2K15FT-43926 Dept. Of Physics, Srimad andavan arts and science college, Trichy 5	Aug 2016	

### 13 M.Sc Students completed project details

S.No	Title	Student detail	Year	Published in Journal
1	Preparation and characterization of semiorganic crystals	J.Marshall, 21PPH803, Dept of Physics, St.Joseph's college, Trichy 2	Mar 2023	
2	Preparation and characterization of metal	N.Hari Bharath, 21PPH821, Dept of Physics,	Mar 2023	

	nitrate thin film	St.Joseph's college, Trichy 2		
3	Preparation and characterization of copper based thin film	A.Joshua Prince Nirmal, 21PPH826, Dept of Physics, St.Joseph's college, Trichy 2	Mar 2023	
4	<b>Dielectric and biological activity in copper doped 4-aminopyridinium 5-carboxypentionate</b>	A.Rubika, 20PPH828, Dept of Physics, St.Joseph's college, Trichy 2	Mar 2022	TNSCST funded
	And  Nickel nitrate doped zinc oxide thin film and its characterization			
5	<b>Dielectric and biological activity in copper doped 4-aminopyridinium 5-carboxypentionate</b>  And Preparation and characterization of reduced graphene oxide –Activated carbon in sesamol seed oil environment	S.Sowmiya, 20PPH835, Dept of Physics, St.Joseph's college, Trichy 2	Mar 2022	TNSCST funded
6	DFT studies of L-Leucine amino acid using Gaussian 03 package	S. Keerthana, 19PPH830 Dept of Physics, St.Joseph's college, Trichy 2	March 2021	
7	Solving Schrodinger Equation using Python programming	K. Mohanapriya, 18PPH836 Dept of Physics, St.Joseph's college, Trichy 2	April 2020	
8	Refractive index, UV-Visible spectrum, conductivity, surface tension and viscosity of aqueous glycine zwitterion	M.Pavithra, P16PH0005 Dept. Of Physics, Srimad andavan arts and science college, Trichy 5	April 2018	Published
9	Microstructural analysis of Doped sodium chloride	S.Amsarekha, 11PPH811 Dept of Physics,	April 2013	Published

		St.Joseph's college, Trichy 2		
10	Structural analysis of metallic complexes using single crystal x-ray diffraction	M.Renugadevi, 11PPH802 Dept of Physics, St.Joseph's Trichy 2	April 2013	Published
11	Characterization of metallic complexes	R.Priyanka mary, 11PPH802, Dept of Physics, St.Joseph's college, Trichy 2	April 2013	
12	Synthesis and structural analysis of Tellurium based Nano crystal	M.Parameswari, 10PPH822 Dept of Physics, St.Joseph's college, Trichy 2	April 2012	
13	Synthesis and characterization of Tellurium based nano particles	N.Kavitha, 10PPH827 Dept of Physics, St.Joseph's college, Trichy 2	April 2012	
14	RF based wireless messaging system	K.Palani, 05PEL826 Dept of Electronics, St.Joseph's college, Trichy 2	April 2007	
15	Auto set charge system for winder machine using Siemens PLC	N.L.Thangadurai, 05PEL827 Dept of Electronics, St.Joseph's college, Trichy 2	April 2007	
16	Embedded based burner management	M.Muthukumar, 05PEL827 Dept of Electronics, St.Joseph's college, Trichy 2	April 2007	
17	RF based 6 channel home automation using embedded technology	G.Bhuvaneswari, 03BBS1100 Dept. Of Physics, VICAS for women, Namakkal	March 2005	
18	Uninterrupted three single phase supply	V.Hemalatha, 03BBS1109 Dept. Of Physics, VICAS for women, Namakkal	March 2005	
19	Study of interfacing auto gas control to automatic Absorption spectrometer	Lakshmi Suneetha. Kota, 03BBS1117 Dept. Of Physics, VICAS for women, Namakkal	March 2005	

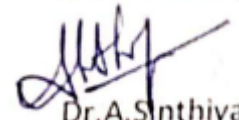
### **Extracurricular activities**

1. N.C.C – passed C certificate
2. Drawing – Chart painting

I assure you that all these information s are correct

Place : Trichy  
Date ; 16-08-2320

Signature of the candidate



Dr.A.Sinthiya