



Kalaingar Karunanidhi Government Arts College for Women (Autonomous)
(Nationally Re-accredited with B⁺⁺ Grade by NAAC 3rd Cycle)
(Affiliated to Bharathidasan University, Tiruchirappalli)
Pudukkottai - 622001, Tamilnadu, India.

Phone:04322 222202 Website:www.gacwpdkt.ac.in E-mail:gacwpdkt@yahoo.co.in

CRITERION III – RESEARCH INNOVATIONS AND EXTENSION

3.7. COLLABORATION

3.7.1.3 Collaborative activities

DEPARTMENT OF TOURISM AND TRAVEL MANAGEMENT

Based on the MOU, in academic year 2022-2023 the Department of Tourism and Travel Management has organized World Tourism day Seminar, Cultural activity, and a special along with the Udhyam Air Travel Pudukkottai. The theme of the Seminar on “**Tourism and Green Investments**”. The chief guest of the special lecture was Mr. Arun Rebero, Contura Solar India PVT LTD., Trichy. In his presentation he has pointed out the need and importance of the Green Energy and Alternative Energy. Mr. Ramesh Babu Udhyam Air Travels Pudukkottai and District Tourist officer Pudukkottai has acted as guest of Honor of the event. There were more than 240 students has participated within and outside of the departments.

Before the World Tourism Day Celebrations, there were various special competitions conducted for the intra college students. At the end of the events prizes were distributed to the winners.



Kalaingar Karunanidhi Government Arts College for Women (Autonomous)
(Nationally Re-accredited with B++ Grade by NAAC 3rd Cycle)
(Affiliated to Bharathidasan University, Tiruchirappalli)
Pudukkottai - 622001, Tamilnadu, India.

Phone: 04322 222202 Website: www.gacwpdkt.ac.in E-mail: gacwpdkt@yahoo.co.in

KALAIANGAR KARUNANIDHI
GOVT. ARTS COLLEGE FOR WOMEN (AUTONOMOUS),
PUDUKKOTTAI - 622 001.
DEPARTMENT OF TOURISM & TRAVEL MANAGEMENT.
Cordially Invite you all to Grace the Events Organized on the Special Occasion of

WTD-TOURISM DAY-2023

WORLD TOURISM DAY 2023 | TOURISM & GREEN INVESTMENTS

A MOU initiative
27th- September-2023
Date: 27-September-2023 at 10.30 am Venue: Assembly Hall

Thamizh Thaa! Vaazhthu Kalluri Pan

Welcome Address Dr. R. Narasimmaraj
Asst. Professor and Head
Dept. of Tourism and Travel Management
Kalaingar Karunanidhi Govt. Arts College for Women (Autonomous),
Pudukkottai

Presidential Address Dr. J. Suganthi
Principal
Kalaingar Karunanidhi Govt. Arts College for Women (Autonomous),
Pudukkottai

Guest of Honour Mr. Muthusamy
Asst. District Tourist Officer, Dept. of Tourism
Govt. of Tamilnadu
Pudukkottai

Guest of Honour Mr. Ramesh Babu
Managing Director, Udayam Air Travels
Pudukkottai

Keynote Address on "Tourism Green Investment"
Mr. Arun Rebero
Co-Founder & Director, Contura Solar (India) PVT. LTD
Tiruchirappalli

Vote of Thanks Ms. E. Vellaiyammal
Guest Lecturer
Dept. of Tourism and Travel Management
Kalaingar Karunanidhi Govt. Arts College for Women (Autonomous),
Pudukkottai

National Anthem
Students Cultural Extravaganza





Kalaighar Karunanidhi Government Arts College for Women (Autonomous)
(Nationally Re-accredited with B⁺⁺ Grade by NAAC 3rd Cycle)
(Affiliated to Bharathidasan University, Tiruchirappalli)
Pudukkottai - 622001, Tamilnadu, India.

Phone:04322 222202 Website:www.gacwpdkt.ac.in E-mail:gacwpdkt@yahoo.co.in

PG & RESEARCH DEPARTMENT OF PHYSICS

MoU was signed between the Lakshmi Electronics and PG & Research Department , Kalaighar Karunanidhi Govt. Arts college for Women(Autonomous), Pudukkottai-6200 001, Friday. Following that the Chief Executive Officer of Mrs. M. Kalaiselvi, The Lakshmi Electronics, Trichy has given the training to the PG students to design a circuits which comes under their curriculum . The discrete components were provided by the company and every students with soldering rod made a circuit connections and tested the working of the circuits.









Kalaingar Karunanidhi Government Arts College for Women (Autonomous)
 (Nationally Re-accredited with B⁺⁺ Grade by NAAC 3rd Cycle)
 (Affiliated to Bharathidasan University, Tiruchirappalli)
Pudukkottai - 622001, Tamilnadu, India.

Phone: 04322 222202 Website: www.gacwpdkt.ac.in E-mail: gacwpdkt@yahoo.co.in

3.7.1.1 Collaborative Activities of

Dr.R.Santhakumari, Associate Professor & Head & Dr.Suresh Sagadevan, Associate Professor, Nanotechnology catalysis and Research Centre, University of Malaya, Kuala Lumpur, Malaysia

 <p>Dr. Suresh Sagadevan Associate Professor Nanotechnology catalysis and Research centre University of Malaya Kuala Lumpur, Malaysia.</p>	 <p>Dr.R. Santhakumari Associate Professor & Head PG and Research Department of Physics Kalaingar Karunanidhi Govt., Arts College For Women (Autonomous) Pudukkottai – 622 001. Tamil Nadu, India</p>	
<p>Date: 01.03.2022</p>		
<p>LINKAGE For the year 2022-2023 Between</p>		
<p>1. Dr. Suresh Sagadevan Associate Professor Nanotechnology catalysis and Research centre , University of Malaya Kuala Lumpur, Malaysia.</p>	<p>&</p>	<p>2. Dr.R. Santhakumari Associate Professor & Head PG and Research Department of Physics Kalaingar Karunanidhi Govt., Arts College For Women (Autonomous) Pudukkottai – 622 001. Tamil Nadu, India</p>
<p>Considering the significance of the noble cause for the student community, we have come forward to collaborate with each other to exchange research knowledge, expertise, characterization facilities to the process of scientific research and education in the field of Crystal growth and Spectroscopy. The parties (mentioned above as 1. & 2.) have had preliminary discussion in this matter and have ascertained areas of broad consensus. The parties now therefore agreed to enter in writing these avenues of consensus, under a flexible linkage, and this project aims to fill the gap between knowledge demand and subject expertise related to the mentioned field.</p>		
<p>Joint Responsibilities</p> <ul style="list-style-type: none"> • Joint Publication of research articles, books, magazines, bulletins etc., • Jointly organizing conferences, seminars, symposia and workshops. • Submitting joint proposals for research funding from agencies like UGC, CSIR, DST and TNSCST. 		
<p> Dr. Suresh Sagadevan, FRSC Associate Professor Nanotechnology and Catalysis Research Center (NANOCAT) University of Malaya, Malaysia E-mail: dsureshsagadevan@um.edu.my Tel: +603-7967 7022 ext. 2945 (O), +6017-3149448</p> <p><small>PROF. MADHYA DR. SURESH SAGADEVAN Associate Professor Nanotechnology & Catalysis Research Centre (NANOCAT) 1st Floor, Block A, Faculty for Advanced Studies (FAS) University of Malaya, 50603 Kuala Lumpur</small></p>	<p> Dr. R. SANTHAKUMARI Associate Professor & Head, PG and Research Department of Physics, Kalaingar Karunanidhi Govt. Arts College for Women (Autonomous), Pudukkottai - 622 001.</p>	



Kalaingar Karunanidhi Government Arts College for Women (Autonomous)
(Nationally Re-accredited with B⁺⁺ Grade by NAAC 3rd Cycle)
(Affiliated to Bharathidasan University, Tiruchirappalli)
Pudukkottai - 622001, Tamilnadu, India.

Phone:04322 222202 Website:www.gacwpdkt.ac.in E-mail:gacwpdkt@yahoo.co.in

RESEARCH ARTICLE JOINTLY PUBLISHED SINCE 2021

1. 3-D Supramolecular, quantum computational, and vibrational spectroscopic investigation on L- cysteinium methanesulfonate single crystals. P.Koteeswari, Solhe F. Alshahateet, R. Santhakumari, Is Fathima, **Suresh Sagadevan** *Molecular Crystals and Liquid Crystals*, (2023),

<http://dx.doi.org/10.1080/15421406.2023.2171558>.

2. “Growth, NBO, and vibrational studies combined with intramolecular hydrogen bond interaction of L-Valine lead (II) nitrate complex: DFT” Usha C, Buvaneswari, M; **Santhakumari, R;** ;Jayasree, R **Suresh Sagadevan**, *Journal: Journal of Molecular Structure* (2022), Volume 1249, Pages:131570,

<https://www.sciencedirect.com/science/article/abs/pii/S0022286021016987#!>

3. Synthesis, growth, physicochemical characterization, and computational studies on aminopyridinium chloronicotinate single crystal, G. Amudha, **R. Santhakumari**, D. Chandrika, S. Mugeshini N. Rajeswari, **Suresh Sagadevan** *Crystal Research & Technology* 57, (2022) 2100265,

, <https://doi.org/10.1002/crat.202100265>

4. Growth, spectroscopic, and Hiresfeld surface analysis on pyridine urea single crystal.

G. Amudha, **R. Santhakumari**, D. Chandrika S. Mugeshini N. Rajeswari, **Suresh Sagadevan**, *Journal of Molecular Structure*. 1257 (2022) 13260,

<https://doi.org/10.1016/j.molstruc.2022.132606>.

5. Synthesis, growth, DFT, and HOMO-LUMO studies on pyrazolemethoxy benzaldehyde single crystals. G. Amudha, **R. Santhakumari**, D. Chandrika, S. Mugeshini, N. Rajeswari, **Suresh. Sagadevan**, *Chinese. Journal of Physics* 76 (2022) 44–58,

<https://doi.org/10.1016/j.cjph.2021.10.038>

6. Synthesis, growth, supramolecular, experimental, and theoretical characterization of 6-amino-1H-pyrimidine-2,4-dione dimethylacetamide single crystal. S. Mugeshini, **R. Santhakumari**, N. Rajeswari, G. Amudha, D. Chandrika, F. Solhe, Alshahateet. *Chinese Journal of Physics* Volume:76, (2022), Pages:14-23. <http://dx.doi.org/10.1016/j.cjph.2021.10.037>

7. Growth, computational studies and docking analysis on α - pyrrolidinopentiophenone hydrochloridemonohydrate single crystal. S. Mugeshini, **R. Santhakumari**, N. Rajeswari, G. Amudha, D. Chandrika, *Journal of Molecular Structure* Volume 1249 (2022), 131600.



Kalaighnar Karunanidhi Government Arts College for Women (Autonomous)
(Nationally Re-accredited with B⁺⁺ Grade by NAAC 3rd Cycle)
(Affiliated to Bharathidasan University, Tiruchirappalli)
Pudukkottai - 622001, Tamilnadu, India.

Phone:04322 222202 Website:www.gacwpdkt.ac.in E-mail:gacwpdkt@yahoo.co.in

<https://doi.org/10.1016/j.molstruc.2021.131600>.

8.Synthesis, growth spectral and computational studies on Aminomethylpyridinium trichloroacetate single crystal.Rajeswari , **R. Santhakumari**, S. Mugeshini, D. Chandrika, Suresh Sagadevan, Journal:***Chinese Journal of Physics* (2021)**, Volume 73, Pages:746-755.

<https://doi.org/10.1016/j.cjph.2021.08.010>

9.Growth and computational studies on vanillin isoniazid single crystals. S. Mugeshini , **R. Santhakumari**, N. Rajeswari , G.Amudha, D. Chandrika, Suresh Sagadevan ***Chinese Journal of Physics* (2021)**, Volume 72, 229-239.

<https://doi.org/10.1016/j.cjph.2021.04.025>

10.Synthesis, growth, structural, spectroscopic, optical, thermal, DFT, HOMO–LUMO, MEP, NBO analysis and thermodynamic properties of vanillin isonicotinic hydrazide single crystalBuvaneswari, M;**Santhakumari, R**;Usha C;Jayasree, R Sagadevan,Suresh *Journal: Journal of Molecular Structure* (2021), Volume 1243, Pages: 130846,

<https://www.sciencedirect.com/science/article/abs/pii/S0022286021009893?via%3Dihub>

11."Synthesis, growth and computational studies on vanillin nicotinamide single crystals" Buvaneswari, M; **Santhakumari, R**; Jayasree, R; Sagadevan, Suresh, Journal: ***Applied Physics A* (2021)** Volume: 127,7,544, **Publisher: Springer Berlin Heidelberg**

<https://scholar.google.com/scholar?oi=bibs&cluster=11366455528636393081&btnI=1&hl=en>

12."Synthesis, growth, crystal structure, vibrational, DFT and HOMO-LUMO analysis on protonated molecule-4-aminopyridinium nicotinate, R.Vasanthakumari **Santhakumari R**, Nirmala W. Suresh Sagadevan Mugeshini S, Rajeswari Journal: *Journal of Molecular structure* (2021), Volume 1239, 130449,

<https://scholar.google.com/scholar?oi=bibs&cluster=11821331330726099174&btnI=1&hl=en>







Kalaingar Karunanidhi Government Arts College for Women (Autonomous)
(Nationally Re-accredited with B⁺⁺ Grade by NAAC 3rd Cycle)
(Affiliated to Bharathidasan University, Tiruchirappalli)
Pudukkottai - 622001, Tamilnadu, India.

Phone: 04322 222202 Website: www.gacwpdkt.ac.in E-mail: gacwpdkt@yahoo.co.in

DEPARTMENT OF PHYSICS

Dr.R.Santhakumari, Associate Professor & Head & Dr.K.Ravichandran, Associate Professor,
Sri AVVM Pushpam College (Autonomous), Poondi, Thanjavur

 <p>Dr. K. Ravichandran Associate Professor PG & Research Department of Physics AVVM Sri Pushpam College (Autonomous) Poondi-613 503, Thanjavur-Dt, Tamil Nadu, India.</p>	 <p>Dr.R. Santhakumari Head of the Department PG and Research Department of Physics Government Arts College For Women (Autonomous) Pudukkottai - 622 001, Tamil Nadu, India</p>	
LINKAGE For the year 2021-2022		Date: 05.09.2021
Between		
1. Dr. K. Ravichandran Associate Professor & Head PG & Research Department of Physics A.V.V.M Sri Pushpam College (Autonomous), Poondi - 613 503.	&	2. Dr.R. Santhakumari Head of the Department PG and Research Department of Physics Government Arts College For Women (Autonomous) Pudukkottai - 622 001, Tamil Nadu, India
<p>Considering the significance of the noble cause for the student community, we have come forward to collaborate with each other to exchange research knowledge, expertise, laboratory and library facilities to the process of scientific research and education in the field of materials science. The parties (mentioned above as 1. & 2.) have had preliminary discussion in this matter and have ascertained areas of broad consensus. The parties now therefore agreed to enter in writing these avenues of consensus, under a flexible linkage, and this project aims to fill the gap between knowledge demand and subject expertise related to the mentioned field.</p>		
<p>Joint Responsibilities</p> <ul style="list-style-type: none">• Sharing of laboratory facilities, library resources, database etc.,• Joint Publication of research articles, books, magazines, bulletins etc.,• Jointly organizing conferences, seminars, symposia and workshops.• Submitting joint proposals for research funding from agencies like UGC, CSIR, DST and TNSCST.		
 <p>Dr. K. Ravichandran Dr. K. Ravichandran Ph.D., Head, Department of Physics AVVM Sri Pushpam College (Autonomous) Poondi, Thanjavur - 613 503</p>	 <p>Dr. R. Santhakumari Assistant Professor PG and Research Department of Physics Kalaingar Karunanidhi Govt. Arts College for Women (Autonomous) Pudukkottai - 622 001.</p>	



Kalaighnar Karunanidhi Government Arts College for Women (Autonomous)

(Nationally Re-accredited with B⁺⁺ Grade by NAAC 3rd Cycle)

(Affiliated to Bharathidasan University, Tiruchirappalli)

Pudukkottai - 622001, Tamilnadu, India.

Phone:04322 222202 Website:www.gacwpdkt.ac.in E-mail:gacwpdkt@yahoo.co.in

DEPARTMENT OF PHYSICS



JOINTLY ORGANIZING WORKSHOP



JOINTLY PUBLISHING RESEARCH ARTICLE



SHARING INSTRUMENTATION FOR RESEARCH SCHOLARS



27/3/2024
**PRINCIPAL,
KALAIGHNAR KARUNANIDHI GOVT.
ARTS COLLEGE FOR WOMEN (A),
PUDUKKOTTAI - 622 001**