


## CURRICULUM VITAE

	<p><b>Name</b> : Dr. A. J. CLEMENT LOURDURAJ <b>email ID</b> : <a href="mailto:ajeevaclement@gmail.com">ajeevaclement@gmail.com</a> <b>Mobile No</b> : 9894113340 <b>Designation</b> : Assistant Professor in Physics</p>	
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### Skills:

- Ability to organize curricular and co- curricular events.
- Teaching and Research.
- Interested in Photography, Videography and Making Short films.

### Areas of Research Interest:

- Ultrasonic
- Spectroscopy
- Nanoscience and Nanotechnology
- Computational Technology
- Materials Characterization and applications.

### Personal Details:

Name : Dr. A. J. CLEMENT LOURDURAJ  
Nationality : Indian  
Date of Birth : 02.06.1977                      Gender: Male  
Designation : Assistant Professor in Physics  
St. Joseph's College (Autonomous)  
Tiruchirappalli – 620 002, Tamil Nadu, India  
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1/199-2 CASA (de) MARIA,  
Rajiv Gandhi Nagar, Malliyampattu,  
Vayalur Road, Tiruchirappalli – 620 102.

### **Educational Qualifications:**

<b>S.No.</b>	<b>Degree</b>	<b>University</b>	<b>Year</b>
1.	B. Sc.,(Physics)	St. Joseph's College(autonomous), Trichy, TN Bharathidasan University, Trichy, TN	April -1997
2.	M. Sc., (Physics)	St. Joseph's College(autonomous), Trichy, TN Bharathidasan University, Trichy, TN	April -2000
3.	PGDCSA	St. Joseph's College(autonomous), Trichy, TN Bharathidasan University, Trichy, TN	April -2001
4.	M.Phil., (Physics)	Manonmanium Sundaranar University, Triunelveli	November - 2003
5.	Ph.D., (Physics)	Bharathidasan University, Trichy, TN	November - 2011

**Ph.D Thesis Title:** “Ultrasonic and FTIR Spectroscopic Investigation of some Binary and Ternary Liquid Systems”

**M.Phil Dissertation Title:** “Microprocessor Based Weighing Scale”

### **Employment Record:**

- Assistant Professor in Physics, St. Joseph's College (autonomous), Trichy from June 2002 – 2007 in Shift – I (Management Staff – Coordinator appointment)
- Assistant Professor in Physics, St. Joseph's College (autonomous), Trichy from June 2007 – 2012 in Shift – II (Management Staff – Coordinator appointment)
- Assistant Professor in Physics, St. Joseph's College (autonomous), Trichy since June 2012 in Shift – I (Government Aided Staff)
- Handling Classes for departments of Electronics, Visual Communication.

## **Administrative Experience:**

- St. Joseph's College, Trichy Staff Association EC member in 2010 to 2012.
- NSS programme officer, St. Joseph's College, Trichy in 2013 – 2015.
- NSS – Coordinator , St. Joseph's College, Trichy in 2015 – 2016
- Department of Physics, St. Joseph's College, Trichy Micro Quality Circle (MCQ) member from 2006 to 2023.
- Resource person for JASS – IAS coaching
- Resource Person for YSSP (Young Students Scientist Programme)

## **Publications:**

### **❖ International Journal:**

1. Ultrasonic studies on binary liquid mixture: Ethyl Acetate + 2-Butanone – *International Journal of Chemical, Environmental and Pharmaceutical Research, 2010.*
2. Synthesis and characterization of MnO<sub>2</sub> Nanoparticles using Co-precipitation Technique, *International Journal of Scientific Research in Science and Technology, 2017.*
3. Characterization of Spray Deposited MnO<sub>2</sub> Thin Films, *International journal of Scientific Research in Science and Technology, 2017.*
4. Structural and Surface Morphology Studies of Zinc Sulphide Nanopowers, *International Research Journal of Engineering and Technology, 2017.*
5. Bulk Synthesis and Characterization of Multiwalled Carbon Nanotubes by CVD method, *International journal of Scientific Research in Science and Technology, 2017.*
6. Synthesis of few Layer Graphene using Mechanical Exfoliation of Kitchen Blender Method for Super Capacitor Applications, *International journal of Scientific Research in Science and Technology, 2017.*
7. Large Scale Synthesis and Characterization of Few Layer Graphene Nanosheets for Supercapacitor Applications, *International Research Journal of Engineering and Technology, 2017.*

8. *Investigation of Cytotoxicity and Antimicrobial Activity of Green Synthesized Iron:Zinc bimetallic Nanoparticles, Proceedings of India-UK Joint International Conference on Advanced Nanomaterials for Energy, Environment and Healthcare Applications (ANEH-2018), Triuchengode, Namakkal. 2018*
9. *Characterization and Evaluation of Antibacterial Activities of Chemically Synthesized Ag/ZnO Nanoparticles, International Conference on Advanced Materials and its Applications (ICAMA ? 18), Thanthai Hans Rover College, Perambalur. 2018*
10. *Leaf Extract Mediated Green Synthesis of Ce-Doped NiO Nanoparticles using Moringa Oliefera Leaf for its Antibacterial Studies. Conference on Material and Technologies for Energy Conversion and Storage (M-TECS?18), BARC, Mumbai. 2018*
11. *Leaf Extract Mediated Green Synthesis of Ce-Doped NiO Nanoparticles using Moringa Oliefera Leaf for its Antibacterial Studies. Conference on Material and Technologies for Energy Conversion and Storage (M-TECS?18), BARC, Mumbai. 2019*
12. *Investigation of cytotoxicity and antimicrobial activity of green synthesized  $Fe_{1-2x}Zn_xTi_x$  nanoparticles via *Justicia Adathoda*. *Materials Chemistry and Physics. 2019**
13. *Synthesis and Characterization studies on Amino Acid Capped Zinc Oxide Nanoparticles for Opto Electronic Applications, International Web Conference on Advanced Materials (IWCAM 2019) 2019*
14. *Study of Antimicrobial Activity of Synthesized Pure and Ag-doped MgO Nanoparticles, International Web Conference on Advanced Materials (IWCAM 2019). 2019*
15. *Synthesis and Characterization of Cobalt doped Zinc Oxide Nanoparticles for Antibacterial Applications, International Web Conference on Advanced Materials (IWCAM 2019) 2019*
16. *Investigation of Antimicrobial Activity of Green Synthesized Iron:Manganese Bimetallic Nanoparticles via *Solanum Trilobatum*, Proceedings of the India-UK Second International Conference on Advanced Nanomaterials for Energy, Environment and Healthcare Applications (ANEH-2019), BHC, Trichy. 2019*

17. *Analysis of Antibacterial Activities of Synthesized Silver Doped Zinc Oxide Nanomaterials using Sol-Gel method, **International Conference on Nanoscience and Nanotechnology (ICONN 2019), SRM, Chennai. 2019***
18. *Synthesis of reduced graphene oxide and a study on its electrochemical performance for supercapacitor applications, **Journal of Materials Today: Proceedings. 2022***
19. *Green Synthesis and Characterization of dibismuth zinc oxide diborate nano particle as good candidate for radiation shielding applications, **Journal of Alloys and Compounds. 2022***
20. *Green mediated zinc nanoparticles toward antibacterial and photocatalytic activity on organic dye pollutants, **Journal of Neuroquantology. 2022***
21. *Investigation of electrochemical behavior of  $\text{Co}_3\text{O}_4/\text{Mn}_2\text{O}_3/\text{rGO}$  nanocomposite for supercapacitor applications, **Journal of Materials Science: Materials in Electronics. 2023***
22. *Green synthesis and characterization of dibismuth zinc oxide diborate nano particle as a good candidate for radiation shielding applications, **Journal of Alloys and Compounds. 2023***
23. *Synthesis and characterization of Lead-Nickel-Boron nanocomposite for radiation shielding application, **Radiation Physics and Chemistry. 2023***
24. *Synthesis, physical, optical and radiation shielding properties of Barium-Bismuth Oxide Borate-A novel nanomaterial, **Nuclear Engineering and Technology. 2023***
25. *Green synthesis of Lead-Nickel-Copper nanocomposite for radiation shielding, **Nuclear Engineering and Technology. 2023***
26. *Aloe vera-mediated green synthesis of bismuth-zinc-iron nanocomposite for radiation shielding applications, **Journal of Physics and Chemistry of Solids. 2023***
27. *Structural and Optical studies on various concentrations of Dy<sup>+</sup> doped lead fluoro borotellurophosphate glasses for white light and solid state light applications, **Journal of Material Science :***

***Material Electron. 2023***

28. *Synthesis, Physical, structural and optical behaviors of concentration dependent Dy<sup>+</sup> ions doped lead borophosphate glasses, **Proceedings ICCAMS 2023. 2023***
29. *Hydrothermal synthesis of cobalt oxide nanoparticles as electrode material for supercapacitor and electromechanical performance, **Proceedings ICCAMS 2023. 2023***
30. *Synthesis and characterization of BiBaI nanocomposite for radiation shielding, **Progress in Nuclear Energy. 2023***

**❖ National Journals:**

1. Ultrasonic and Spectroscopic studies of binary mixture 2-Ethoxy Ethanol + DMSO at 303.15 K., ***Journal of Pure and Applied Ultrasonics, 2006.***
2. Ultrasonic and Spectroscopic studies of binary mixtures of Cyclohexanone with Hexane and Heptane, ***Journal of Pure and Applied Ultrasonics, 2008.***
3. Ultrasonic and Spectroscopic studies of binary mixtures Benzaldehyde + Benzyl Chloride and Benzyl Chloride + 2-Butanone, ***Journal of Acoustical Society of India, 2010.***
4. Ultrasonic and Spectroscopic studies of ternary mixture Ethyl Acetate + 2-Butanone + Hexane, ***Journal of Acoustical Society of India, 2010.***
5. Ultrasonic and Spectroscopic studies of binary mixtures Ethyl Acetate + 2-Butanone and Ethyl Acetate + Hexane, ***Journal of Acoustical Society of India, 2010.***
6. Thermodynamic Study on Binary Mixture of DMSO + Benzaldehyde, ***Journal of Acoustical Society of India, 2010.***
7. Confirmation of Ultrasonic parameters using FTIR analyze for binary mixture of Methyl Benzoate + 2-Ethoxy Ethanol and Methyl Benzoate + 2-Butoxy Ethanol, ***Journal of Acoustical Society of India. 2016.***

❖ **Conference / Symposium Proceedings:**

1. Confirmation study of ultrasonic parameter using FTIR method for binary mixture of Hexane + Heptane – Published in the proceedings of XVIII National Symposium on Ultrasonics (NSU – 2009), 324-328
2. Investigation of ultrasonic parameter and spectroscopic study of binary mixture Benzaldehyde + Hexane - Published in the proceedings of XVIII National Symposium on Ultrasonics (NSU – 2009), 592-595.
3. Ultrasonic and spectroscopic studies of ternary mixtures Cyclohexanone + Hexane + Heptane - Published in the proceedings of XVIII National Symposium on Ultrasonics (NSU – 2009), 596-600.
4. Ultrasonic and spectroscopic studies of binary mixture Ethyl Acetate + Benzylchloride - Published in the proceedings of XVIII National Symposium on Ultrasonics (NSU – 2009), 601-603.
5. Acoustical and Spectroscopic Investigation of Molecular Interactions in Ionic Liquids - Published in the proceedings of National Symposium on Acoustics (NSA-2010), 18 - 24.
6. Ultrasonic, Thermodynamic parameters and FTIR studies on ternary liquid mixture Cyclohexanone + 2butanone + Ethyl Acetate – Published in the proceedings of National Symposium on Acoustics (NSA-2010), 40 - 43.
7. Acoustic, Thermodynamic and FTIR studies on binary mixture Heptane + Benzyl Chloride – Published in the proceedings of National Symposium on Acoustics (NSA-2010), 44 - 52.
8. Confirmation of Ultrasonic parameter using FTIR method for binary mixture of Cyclohexanone + Benzyl Chloride – Published in the proceedings of National Symposium on Acoustics (NSA-2010), 53 - 59.
9. Non Linear study on binary liquid mixture of DMSO + Benzaldehyde – Published in Acoustics Waves (Proceedings of NSA – 2011), 51 – 51.
10. Thermodynamic study on binary mixture of DMSO + Benzaldehyde - Published in Acoustics Waves (Proceedings of NSA – 2011), 163 – 170.
11. Ultrasonic study on binary mixture of DMSO + Cyclohexanone - Published in Applied Ultrasonics (Proceedings of NSA – 2011), 32 – 37.
12. Ultrasonic study on binary mixture of DMSO + 2-Butanone - Published in

Applied Ultrasonics (Proceedings of NSA – 2011), 96 – 101.

13. Ultrasonic And Spectroscopic Studies On Liquid Mixture of 2-Ethoxy Ethanol + Diethylether – Published in Proceedings of International Conference on Acoustics – 2013 New Delhi – Nov 10 -15, 2013, 743 – 749.
14. “Ultrasonic parameter confirmed by using FTIR method for Binary Mixture of 2-Ethoxy Ethanol + Hexane” – Proceedings of International Conference on Acoustics – 2013 New Delhi – November 10 -15, 2013, 750 – 757.
15. “Confirmation of Ultrasonic parameters using FTIR method for Binary Mixture of 2-Ethoxy Ethanol + Ethyl Acetate” – Published in Proceedings of International Conference on Acoustics – 2013 New Delhi – November 10 -15, 2013, 735 – 742
16. Ultrasonic and Spectroscopic studies on liquid mixture of 1,2 Dichloroethane + 2-Ethoxy Ethanol, *Proceedings of CTNM - 2013*
17. “Ultrasonic And Spectroscopic Studies on Ternary Mixture of Cyclohexanone + 2-Ethoxy Ethanol + Ethyl Acetate” – Proceedings of National Symposium on Acoustics – NSA-2014, AIISH, Mysore – November 13 – 15, 2014.
18. Thermodynamic studies on binary mixture Methly Benzonate + 2-Butoxy Ethanol, *Proceedings of National Symposium on Acoustics, 2015.*
19. Thermodynamic studies on binary mixture Methly Benzonate + 2-Ethoxy Ethanol, *Proceedings of National Symposium on Acoustics, 2015.*
20. Confirmation of Ultrasonic parameter using FTIR analyse for binary mixture of Methly Benzonate + 2-Ethoxy Ethanol, *Proceedings of National Symposium on Acoustics, 2015.*
21. Confirmation of Ultrasonic parameter using FTIR analyse for binary mixture of Methly Benzonate + 2-Butoxy Ethanol, *Proceedings of National Symposium on Acoustics, 2015.*
22. Facile single step electrochemical synthesis of Few Layered Graphene for energy storage applications, *RETELL, 2017.*
23. Leaf Extract Mediated Green Synthesis of Ce-Doped NiO Nanoparticles using Moringa Oliefera Leaf for its Antibacterial Studies, *Conference on Material and Technologies for Energy Conversion and Storage (M-*



*TECS'18), BARC, Mumbai.*

24. Analysis of Antibacterial Activities of Synthesized Silver Doped Zinc Oxide Nanomaterials using Sol-Gel method, *International Conference on Nanoscience and Nanotechnology (ICON 2019), SRM, Chennai.*
25. Characterization and Evaluation of Antibacterial Activities of Chemically Synthesized Ag/ZnO Nanoparticles, *International Conference on Advanced Materials and its Applications (ICAMA – 18), Thanthai Hans Rover College, Perambalur.*
26. Investigation of Cytotoxicity and Antimicrobial Activity of Green Synthesized Iron:Zinc bimetallic Nanoparticles, *Proceedings of India-UK Joint International Conference on Advanced Nanomaterials for Energy, Environment and Healthcare Applications (ANEH-2018), Triuchengode, Namakkal.*
27. Investigation of Antimicrobial Activity of Green Synthesized Iron:Manganese Bimetallic Nanoparticles via Solanum Trilobatum, *Proceedings of the India-UK Second International Conference on Advanced Nanomaterials for Energy, Environment and Healthcare Applications (ANEH-2019), BHC, Trichy.*

### **Research papers presented in conferences/symposiums**

1. Laser based ultrasound generation and detection – presented in National Seminar on Lasers in Technological and Biomedical Applications, at St. Joseph's College (Autonomous), Trichy – 2 on 27 – 28 January 2005.
2. Ultrasonic and Spectroscopic studies of binary mixtures Cyclohexanone + Hexane and Cyclohexanone + Heptane – presented in NSU-XVI, 2007 at CUSAT, Cochin.
3. Ultrasonic and Spectroscopic studies of binary mixtures Benzaldehyde + Benzyl Chloride and Benzyl Chloride + 2Butanone – presented in NSA-2008 at NSTL, Vishakapatnam.
4. Ultrasonic and Spectroscopic studies of binary mixtures Ethyl Acetate + 2Butanone and Ethyl Acetate + Hexane – presented in NSA-2009 at DRDO, Hyderabad.
5. Ultrasonic and Spectroscopic studies of ternary mixture Ethyl Acetate + 2Butanone + Hexane – presented in NSA-2009 at DRDO, Hyderabad.

6. Confirmation study of ultrasonic parameter using FTIR method for binary mixture of Hexane + Heptane – presented in NSU-2009, VIT, Vellore.
7. Ultrasonic, Thermodynamic parameters and FTIR studies on ternary liquid mixture Cyclohexanone + 2butanone + Ethyl Acetate – presented in NSA-2010 at PG college for Arts and Science, Rishikesh.
8. Acoustic, Thermodynamic and FTIR studies on binary mixture Heptane + Benzyl Chloride – presented in NSA-2010 at PG College for Arts and Science, Rishikesh.
9. Confirmation of Ultrasonic parameter using FTIR method for binary mixture of Cyclohexanone + Benzyl Chloride – presented in NSA-2010 at PG college for Arts and Science, Rishikesh.
10. Non Linear study on binary liquid mixture of DMSO + Benzaldehyde – Presented in NSA-2011 at Bundelkhand University, Jhansi(UP).
11. Thermodynamic study on binary mixture of DMSO + Benzaldehyde - Presented in NSA-2011 at Bundelkhand University, Jhansi(UP).
12. Confirmation of Ultrasonic parameter using FTIR analyse for binary mixture of Methyl benzoate + 2-Ethoxy Ethanol, National Symposium on Acoustics, Dona Paula, Goa 7-9 October 2015.
13. Ultrasonic and FTIR studies on liquid mixture of 1-proponal + Hexane, International Symposium on Acoustics for Engineering Applications (NSA-2016), KIIT college of Engineering, Haryana.

### **Research Projects:**

1. Principal Investigator: Liquid Stage Chemical Physics, Minor Projector, UGC, 2015 – 2017, Rs. 2,75,000.00.

### **Awards / Recognition:**

1. Received the Best Research Paper Award from “Madras –India regional chapter of the Acoustical society of America” (MIRC-ASA) and “Acoustical Society of India” (ASI) on 11th – 13th November 2010 held at Rishikesh, Utrarakhand.

**Paper Title:** Confirmation of Ultrasonic Parameter using FTIR method for binary

mixture of Cyclohexanone + Benzyl Chloride.

2. Received Dr. R. Srinivasamoorthy cash award for the Best Research Publications by Physics Department Staff at St. Joseph's College 167th College day on 18<sup>th</sup> March 2011.

3. M.Phil Guide/Research advisor recognition from Bharathidasan University, Trichy. 2008

4. Ph.D Guide / Research advisor recognition from Bharathidasan University, Trichy. 2014

### Seminars , Conferences and Orientation Programme attended:

Title	Type	Organization Name	Place	Days	From Date	To Date
DIGITALISED INFORMATION EXCHANGE FOR QUALITY SUSTENANCE AND ENHANCEMENT	S	ST. JOSEPH S COLLEGE	TRICHY	2	1900-01-01	null
INTERNATIONAL CONFERENCE ON LASERS AND THEIR APPLICATIONS ž INCOLA 2000	C	DEPARTMENT OF PHYSICS,ST. JOSEPH S COLLEGE	TRICHY	4	2000-03-01	null
RECENT TRENDS IN THIN FILM TECHNOLOGY	S	DEPARTMENT OF PHYSICS,ST. JOSEPH S COLLEGE,	TRICHY	1	2003-02-14	null
ULTRASONICS	W	ST. JOSEPH S COLLEGE	TRICHY	1	2004-10-29	null
LASERS IN TECHNOLOGICAL AND BIOMEDICAL APPLICATIONS	S	S	T	2	2005-01-27	null
LATEX	W	DEPARTMENT OF PHYSICS,ST. JOSEPH S COLLEGE,	TRICHY	1	2005-01-29	null
LATEX	W	ST. JOSEPH S COLLEGE	TRICHY	1	2005-01-29	null
INTER PERSONAL SKILLS FOR STAFF MEMBERS	S	ST. JOSEPH S COLLEGE	TRICHY	2	2007-03-03	null
National Symposium on Ultrasonics - XVI	Y	Ultrasonics Society of India	CUSAT, Cochin, Kerala	3	2007-12-17	null
National Symposium on Acoustics - 2008	Y	Acoustical Society of India	NSTL - Vishakapattinam	3	2008-12-22	null
National Symposium on Acoustics - 2009	Y	Acoustical Society of India	DRDO - Hyderabad	3	2009-11-19	null
National Symposium on Ultrasonics - XIX	Y	Ultrasonics Society of India	VIT - Vellore	3	2009-12-21	null
National Symposium on Acoustics - 2010	Y	Acoustical Society of India	PG College for Arts and Science - Rishikesh, Uttarkand.	3	2010-11-11	null
National Symposium on Acoustics	Y	Acoustical Society of	Bundelkhand University -	3	2011-	null

- 2011		India	Jhansi, Uttarpradash		11-17	
CTMN - 2013	S	Department of Physics and Chemistry - Cauvery College for women, Trichy	Cauvery College for woman, Trichy	2	2013-01-23	null
ON GOING ORIENTATION PROGRAM FOR NEWLY RECRUITED STAFF MEMBERS	O	JESUIT HIGHER EDUCATION MADURAI PROVINCE	LOYOLA COLLEGE (Autonomous), CHENNAI	10	2013-05-17	null
ON GOING ORIENTATION PROGRAM FOR NEWLY RECRUITED STAFF MEMBERS	O	JESUIT HIGHER EDUCATION MADURAI PROVINCE	ANUGRAGA ANIMATION CENTER, NOCHIODAIPATTI, DINDIGUL	4	2013-11-19	null
National Conference on Advanced Materials	S	Depts of Physics and Electronics	St. Joseph`s College (Autonomous), Tiruchirappalli	1	2014-02-06	null
Capacity Building Workshop for Faculty on e-Content Development	W	IQAC-St. Joseph`s College, Trichy	St. Joseph`s College, Trichy	4	2015-06-09	null
National Symposim on Acoustics - 2015	S	CSIR-National Institute of Oceanography (NIO)	Dona Paula - GOA	3	2015-10-07	null
Workshop on Advanced Physics Experiments for college Teachers	W	Department of Physics, St. Joseph`s College, Trichy	Department of Physics, St. Joseph`s College, Trichy	2	2015-12-18	null
National Conference on Higher Education in Knowledge Age: Techno-Pedagogical Perspectives and Innovations	C	IQAC-St. Joseph`s College, Trichy	St. Joseph`s College, Trichy	2	2016-02-24	null
91st Orientation programme.	O	HRDC-Bharathidasan University, Tiruchirappalli - 24	Bharathidasan University, Tiruchirappalli - 24	28	2016-05-19	null
National Conference on Advanced Materials (NCAM-2016)	C	Dept. of Physics, St. Joseph`s College	Tiruchirappalli	1	2016-10-07	null
International Symposium on Acoustics for Engineering Applications (NSA - 2016)	I	ASI & KIIT College of Engineering	Gurgaon, New Delhi	3	2016-11-17	null
Science Academics	W	PG and Research Development of Physics	Periyar EVR College, Trihey	1	2017-02-07	null
Nikon School Workshop for Digital Photography	W	Nikon School	St.Joseph`s college-Trichy	1	2017-08-31	null
Kalam Young Researchers Conference (KYRC)-01	C	CSIR-Central Electrochemical Research Institute, Karaikudi	CSIR-CECRI, Karaikudi	1	2017-10-16	null
International Conference on Advanced Materials	I	Department of Physics, St. Joseph`s College, Trichy	St. Joseph`s College, Trichy	2	2017-12-14	null
India-UK Second International Conference on Advanced Nanomaterials for Energy, Environment and Healthcare Applications (ANEH-2019)	I	Bishop Heber College, Trichy, India and Swansea University, UK	Department of Physic, Bishop Heber College, Trichy	3	2019-02-04	null
International web conference on Advanced materials IWCAM2019	I	Department of Physics, St. Joseph`s College, Trichy	Department of Physics, St. Joseph`s College, Trichy	2	2019-02-28	null
International colloquium on "The Challenges of Higher Education in	I	St. Joseph`s College, Trchy	St. Joseph`s College, Trchy	1	2019-09-27	2019-09-27

the 21st Century"						
One Day Workshop on Basics of Accreditation	W	All India Association for Christian Higher Education (AIACHE), New Delhi	Bishop Heber College, Trichy	1	2019-11-30	2019-11-30
National Workshop on Advanced Materials and their applications (NWAMA - 2020)	W	Department of Physics, The Gandhigram Rural Institute (Deemed to be University), Dindigul	Dindigul	2	2020-02-03	2020-02-04
Inclusive Procedure and Processes in Assessment and Accreditation by NAAC	W	IQAC of St. Joseph's College, Trichy	IQAC of St. Joseph's College, Trichy	4	2020-06-30	2021-07-04
International webinar on Advanced Material science 2021	I	Department of Physics	St. Joseph's College, Trichy	2	2021-03-03	2021-03-04
Webinar Series 2021- Advanced Materials	W	Department of Physics, St. Joseph's College (Autonomous)	St. Joseph's College (Autonomous), Trichy - 2	1	2021-08-24	2021-07-24
Advanced Materials- Webinar Series 2021_Event-2	W	Department of Physics, St. Joseph's College (Autonomous)	St. Joseph's College (Autonomous), Trichy - 2	1	2021-09-20	2021-09-20
Research Methodology	R	Teaching Learning Centre, Ramanujan College	University of Delhi	15	2021-09-21	2021-10-05
Developing online courses in LMS	W	Internal Quality Assurance Cell	St. Joseph's College (Autonomous), Trichy - 2	2	2021-11-22	2021-11-23
International Conference on Advanced Materials (ICAM 2022)	I	Department of Physics, St. Joseph's College (Autonomous)	St. Joseph's College (Autonomous). Trichy-2	2	2022-02-11	2022-02-12
International Conference on Advanced Materials - 2022	I	Dept. of Physics, St. Joseph's College, Trichy	Dept. of Physics, St. Joseph's College, Trichy	2	2022-02-11	2022-02-12
In-Service Teacher Training Programme	R	Tamil Nadu State Council For Higher Education	Thanthai Periyar Government Arts and Science College (A), Trichy - 23	2	2022-05-05	2022-05-06
International Conference on Crystal Growth and Spectroscopy	I	Dept. of Physics, St. Joseph's College, Trichy	Dept. of Physics, St. Joseph's College, Trichy	3	2022-08-29	2022-08-31
Workshop on synthesis and characterization of rare earth doped glasses.	W	Dept. of Physics, St. Joseph's College, Trichy	Dept. of Physics, St. Joseph's College, Trichy	1	2022-09-14	2022-09-14
Managing Online Classes & Co-creating MOOCS 22.0	R	Teaching Learning Centre, Ramanujan College, University of Delhi	Teaching Learning Centre, Ramanujan College, University of Delhi	15	2023-01-07	2023-01-21
Orientation Programme for the Teaching Faculty	W	IQAC, St. Joseph's College (Autonomous), Tiruchirappalli - 2	t. Joseph's College (Autonomous), Tiruchirappalli - 2	2	2023-06-15	2023-06-16
Faculty Development Programme on Patents and Consultancy	W	Internal Quality Assurance Cell , St Joseph's College (Autonomous)	TIRUCHIRAPPALLI	1	2023-11-20	2010-01-01
ANU Awareness Programme 2023 on Atoms in the service of the nation	W	St. Joseph's College (Autonomous), Tiruchirappalli - 2, IGCAR, Kalpakkam, The Academy of Sciences, C	t. Joseph's College (Autonomous), Tiruchirappalli - 2	2	2023-11-30	2023-12-01
International Conference on	I	St. Joseph's College	St. Joseph's College	2	2023-	2023-

Advanced Materials - 2023	(Autonomous), Tiruchirappalli - 2	(Autonomous), Tiruchirappalli - 2	12-08	12-09
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### Contribution to Curriculum Development:

**M.Sc Guided:** More than 60 M.Sc Students

**Ph.D Guided: 01**

**Co Guided: 05**

**Ph.D Guiding: 03**

**M. Phil Awarded: 16**

Scholar Code	Scholar Name	Date of ViVa	Title
17MPH110	G.K.KAVI	2018	STUDY ON THERMODYNAMICAL PARAMETERS OF TERNARY LIQUID MIXTURE (TRIETHYLOSTHOFORMATE + N-N DIMETHYL A
09MPH120	R. ILAVARASI	2010	ULTRASONIC AND SPECTROSCOPIC STUDIES ON TERNARY MIXTURES OF CYCLOHEXANONE + HEXANE + 2-BUTANONE A
09MPH113	I. KAROLINE MARY	2010	ULTRASONIC AND SPECTROSCOPIC STUDIES ON TERNARY MIXTURES OF CYCLOHEXANONE + HEPTANE + 2-BUTANONE
10MPH128	A. BAGYA JENIFER	2011	ULTRASONIC AND SPECTROSCOPIC STUDIES ON TERNARY MIXTURE OF BENZALDEHYDE + ETHYL ACETATE + HEPTANE
12MPH109	S. REX ROSARIO	2013	ULTRASONIC AND SPECTROSCOPIC STUDIES ON TERNARY MIXTURE OF 1,2 DICHLOROETHANE + 2ETHOXY ETHANOL + CY
12MPH125	S. SEHBIN JOSE ANTONY	2013	ULTRASONIC AND SPECTROSCOPIC STUDIES ON TERNARY MIXTURE OF CYCLOHEXANONE + 2ETHOXY ETHANOL + ETHYL A
13MPH103	P. MARUTHAIRAJ	2014	ULTRASONIC AND SPECTROSCOPIC STUDIES ON TERNARY MIXTURE OF CYCLOHEXANONE + HEXANE + 1PROPONAL
08MPH126	AMUTHA V	2009	ULTRASONIC AND SPECTROSCOPIC STUDIES OF TERNARY LIQUID MIXTURES (ETHYL ACETATE + 2 BUTANONE + HEXANE
13MPH103	MARUTHAIRAJ P	2014	ULTRASONIC AND SPECTROSCOPIC STUDIES ON TERNARY MIXTURE OF CYCLOHEXANONE + HEXANE + 1-PROPONAL
14MPH105	FRANCIS SANJAI KUMAR	2015	ULTRASONIC AND SPECTROSCOPIC STUDIES ON TERNARY MIXTURE OF METHYL BENZOATE+ 2-METHOXY ETHANOL+ 2-BUT
14MPH117	MUTHULAKSHMI M	2015	ULTRASONIC AND SPECTROSCOPIC STUDIES ON TERNARY MIXTURE OF METHYL BENZOATE+ 2-METHOXY ETHANOL+ 2-ETH
15MPH107	ABIRAMI T	2016	ULTRASONIC, THERMODYNAMIC AND FTIR STUDIES ON

			TERNARY LIQUID MIXTURE OF ETHYL METHYL KETONE + n-BUTYL
15MPH127	AVINASH M	2016	ULTRASONIC, THERMODYNAMIC AND FT-IR STUDIES ON TERNARY LIQUID MIXTURE OF ETHYL METHYL KETONE + n-BUT
16MPH102	PREMI PAVITHRA P	2017	STUDY OF THERMODYNAMICAL PARAMETERS OF TERNARY LIQUID MIXTURE (1-PROPANOL + DIMETHYL PHTHALATE + TOL
16MPH110	LITTLE DONA M	2017	STUDY OF THERMODYNAMICAL PARAMETERS OF TERNARY LIQUID MIXTURE (1-PROPANOL + DIMETHYL PHTHALATE + N-N
16MPH116	JASMINE VINITHA I	2017	STUDY OF THERMO DYNAMICAL PARAMETERS OF TERNARY LIQUID MIXTURES (1 ? PROPANOL, N-N DIMETHYL ANILINE
17MPH119	M. MUTHAMIL SELVI	2018	ULTRASONIC, THERMODYNAMIC AND FT-IR STUDIES ON TERNARY LIQUID MIXTURES OF (1 METHOXY 2 PROPANAOL + T
18MPH105	Remigius Revanth C	2019	Liquid State Chemical Physics with Spectroscopic Confirmation
18MPH108	Rajakumari. A	2019	Liquid State Chemical Physics with Spectroscopic Confirmation
19MPH105	S. Prabha	2020	Review of thermodynamical parameters liquid mixtures
20MPH103	R. Bharathi	2021	A review on molecuar interaction and thermodynamic parameters for binary liquid mixtures at different temperature

### Course Taught:

#### UG Level:

- ✓ Mechanics and Properties of Matter
- ✓ Sound and Thermal Physics
- ✓ Mathematical Physics
- ✓ Electricity and Magnetism
- ✓ C Programming
- ✓ Optics, Spectroscopy and Lasers
- ✓ Digital Electronics and Microprocessor
- ✓ Cell Phone servicing
- ✓ Electrical Wiring
- ✓ Photography

#### PG Level:

- ✓ Analog and Digital Electronics
- ✓ Microprocessor and Microcontroller
- ✓ Nuclear and Particle and Astrophysics
- ✓ Numerical and Statistical Physics
- ✓ Modern Photography and Digital Photography

**M.Phil Level:**

- ✓ Research Methodology
- ✓ Liquid State Chemical Physics (Project Guide Paper)
- ✓ Synthesis and characterization of Nano Materials (Project Guide Paper)