

1. Name : Sr. Venci X.
2. Designation: Asst. Professor of Physics
3. Qualification: M.Sc., M.Phil. Physics, Ph.D.
4. Mobile number: 9488706608
5. E-mail id: vencix@auxiliumcollege.edu.in
6. Teaching Experience: 16 years – UG; 6 years - PG
7. Area of specialization: Nano-particles and thin films
8. Research Experience and Guidance: -
9. Projects Completed / Ongoing: -
10. No. of Papers Published: 9
11. No. of Papers Presented in the National/ International/ Seminars/ Workshops/ Conferences: -
12. No. of Seminars/Workshops/Conferences organized: 10
13. No. of Books Published/Edited/Co-edited: Nil
14. Responsibilities held: Asst. Professor in Physics, Hostel dean, Member of IQAC, VIDES Co-ordinator, Member of the College council
15. Current Responsibilities: Asst. Professor in Physics, Head in charge UG, Hostel dean, VIDES Co-ordinator, Member of the College council.
16. Membership in professional bodies (Descriptive): Nature Science Foundation
17. Other bodies (Descriptive): -
18. Honors & awards received (Descriptive):  
  
Awarded as best VIDES Club Co-ordinator by Nature Science Foundation for the excellent service to the adapted villages through VIDES members.
19. No. of Online Courses completed (Minimum of 4 Weeks): -
20. Any Other (Descriptive)

**Publications:**

1. **X Venci**, Amal George, A.Dhayal Raj, Albert Irudayaraj, D. Magimai Antoni Raj, G. Jayakumar, S John Sundaram, Tuning the morphology and band gap of CdSe nanoparticles via solvothermal method, Materials Today: Proceedings, ISSN:2214-7853, 2020, Vol. 36. Issue (2), pp 459 – 463.
2. **X. Venci**, Amal George, A. Dhayal Raj, A. Albert Irudayaraj, T. Pazhanivel, R. L. Josephine, S. John Sundaram, K. Kaviyarasu, Photocatalytic degradation effect of CdSe nanoparticles for textile wastewater effluents at low cost and proves to be efficient method, Journal of Environmental Research, ISSN 0013-9351, Volume 213, 2022, 113595.
3. **X. Venci**, Amal George, A. Dhayal Raj, A. Albert Irudayaraj, R. L. Josephine, S. John Sundaram, K. Kaviyarasu, Self-Assembly of CdSe 3D Urchins and their photocatalytic Response, Journal of Environment Research, ISSN 0013-9351, Volume 214, November 2022, 113804.
4. **X. Venci**, Amal George, A. Dhayal Raj, A. Albert Irudayaraj, T. Pazhanivel, R. L. Josephine, S. John Sundaram, K. Kaviyarasu, Investigation on the formation of Self-Assembled CdSe dendrite structure and their Photocatalytic efficiency, Journal of Inorganic Chemistry Communications, ISSN: 1387-7003, Volume 148, February 2023, 110309.
5. D Magimai Antoni Raj, Amal George, A Albert Irudayaraj, **X. Venci**, J Arumugam, M Senthil Kumar, S John Sundaram, K Kaviyarasu, The role of pH in enhancing the capacity of CuO nanoparticles for antibacterial activity, Materials Today: Proceedings ISSN: 2214-7853, 2021, Volume 36, Part 2, pages 504 – 508.

6. Amal George, A. Dhayal Raj, A Albert Irudayaraj, D Magimai Antoni Raj, **X. Venci**, G. Jayakumar, J. Arumugam, M Senthil Kumar, S John Sundaram, K Kaviyarasu, Two step synthesis of vanadium pentoxide thin films for optoelectronic applications, Materials Today: Proceedings, ISSN: 2214-7853, 2021, Volume 36, Part 2, pages 464 – 467.
7. Amal George, D Magimai Antoni Raj, **X Venci**, A Dhayal Raj, A Albert Irudayaraj, RL Josephine, S John Sundaram, Amal M Al-Mohaimeed, Dunia A Al Farraj, Tse-Wei Chen, K Kaviyarasu, Photocatalytic effect of CuO nanoparticles flower-like 3D nanostructures under visible light irradiation with the degradation of methylene blue (MB) dye for environmental application, Journal of Environmental Research, ISSN:0013-9351, Volume 203, January 2022, 111880.
8. Amal George, A. Dhayal Raj, A Albert Irudayaraj, R.L.Josephine, **X. Venci**, S. John Sundaram, R. Rajakrishnan , Palaniselvam Kuppusamy, K Kaviyarasu, Regeneration study of MB in recycling runs over nickel vanadium oxide by solvent extraction for photocatalytic performance for wastewater treatments, Journal of Environmental Research Journal of Environmental Research, ISSN:0013-9351, Volume 211, August 2022, 112970.
- 9J. Arumugam, Amal George, **X. Venci**, A. Dhayal Raj, A. Albert Irudayaraj, R.L. Josephine, S . John Sundaram, Wedad A. Al-onazi, Amal M. Al-Mohaimeed, Tse-Wei Chen , K. Kaviyarasu, Exploring and fine tuning the properties of one dimensional Bi<sub>2</sub>S<sub>3</sub> nanorods, Journal of Alloys and compounds, ISSN: 0925-8388, May 2022, Volume 902, 163785.

FDP's / Short courses:

Name of the Course	Academic Staff College, University	Duration	Date
Virtual Online Course for teachers of Higher Education	Sacred Heart College in collaboration with Bosco Institute of Information and Technology	6 months	05.10.2009 – 05.04.2010

Orientation Programme	HRDC-Academic Staff College, University of Madras Chennai.	28 days	05.11.2013 – 02.12.2013
Refresher's Programme	HRDC – Bharathidasan University, Tiruchirappalli – 620 023	21 days	20.12.2017 – 09.01.2018
Inter-Institutional Faculty Enrichment Programme (IIFEP)	AIACHE –All India Association for Christian Higher Education – Sponsored project of UBCHEA - <i>United Board for Christian Higher Education in Asia, New Delhi</i>	7 days	01.12.2014– 07.12.2014
Two week ISTE Short Term Training Programme on 'Engineering Physics'	Indian Institute of Technology- Bombay – held under National Mission on Education through ICT(MHRD) in Thanthai Periyar Government Institute of Technology	11 days	08.12.2015 – 18.12.2015
Refresher Course in Nano Science ( Interdisciplinary)	UGC-Human Resource Development Course, Bharathidasan University	21 days	20.12.2017 – 09.01.2018
Refresher Course in Physics	UGC-Human Resource Development Course, Bharathidasan University	14 days	23.10.2019 – 05.11.2019
International FDP on 'Challenges in Restructuring the innovative Teaching Learning Techniques'	Department of Commerce Auxilium College (Autonomous), Vellore.	7 days	02.06.2020 – 08.06.2020
International FDP on 'Evolving Best Teaching and Learning Practices	The Board of Management Auxilium College (Autonomous), Vellore.	7 days	15.06.2020 – 21.06.2020

in the Pandemic Era 2020'			
Refresher Course in Physics	UGC-HRDC, University of Madras, Chennai – 600 005.	14 days	09.09.2022- 22.09.2022

#### Seminars and workshops:

- Organized the National Conference on “Recent Developments in Materials and methods” Department of Physics, Auxilium College, Vellore-6 on 14<sup>th</sup> September, 2015.
- Organized a National workshop on ‘Android Botix’ in collaboration with e-cell, IIT Bombay, on 14<sup>th</sup> and 15<sup>th</sup> October, 2016.
- Participated in the National Conference on “The Role of IQAC towards Quality Assurance in Autonomous colleges” organized by IQAC, Sacred Heart College, Tirupattur on 4<sup>th</sup> and 5<sup>th</sup> November, 2016.
- Participated in the National Conference on “Systematic investigations of structural, morphological and optical properties of materials” organized by Department of Physics Sacred Heart College, Tirupattur on 1<sup>st</sup> December, 2016.
- Participated in the National Conference on “Journey towards Excellence” organized by IQAC, Auxilium College (Autonomous), Vellore on 9<sup>th</sup> and 10<sup>th</sup> February, 2017
- Organized the National Conference on “Advance Materials and Applications”, Department of Physics, Auxilium college on 7<sup>th</sup> September, 2018.
- Participated in the International Workshop on Materials Technology and Applications organized by VIT University, Centre for Crystal Growth, Vellore on 11<sup>th</sup> and 12<sup>th</sup> October, 2018.
- Participated in the International Conference on Advances in Materials Research organized by PG and research Department of Physics Sacred Heart College, Tirupattur on 12<sup>th</sup> February, 2019.
- Attended the six days International workshop on “Smart Materials Sensor and Energy Devices (SMSSED – 2020)” during 25-30, May 2020 organized by the Department of Electronics & Communication Engineering, SSN College of Engineering, Kalavakkam, Chennai
- Participated in the National Virtual Conference on “Novel Materials, Characterization and

Applications” organized by the Department of Physics, Auxilium College (Autonomous), Vellore on 09.06.2020 and 10.06.2020.

- Participated in the International Webinar on “Nanotechnology in Aerospace” organized by the Department of Physics, Auxilium College (Autonomous), Vellore, Tamilnadu, India on 22nd June 2020
- Participated in the International WEBINAR on “Materials for energy and environmental Applications” organized by PG and Research Department of Physics, Sacred Heart College (Autonomous), Tirupattur, Tamil Nadu, India on 24th June 2020.
- Participated in the International Webinar Series on “Advanced Materials for Sustainable Development” organized by the Department of Physics, School of Advanced Sciences, Kalasalingam Academy of Research and Education, Krishankoil during 2nd & 3rd, July 2020
- Participated in the International WEBINAR on “Materials and Methods for Bio-Applications” organized by PG and Research Department of Physics, Sacred Heart College (Autonomous), Tirupattur, Tamil Nadu, India on 7th July 2020.
- Participated in the 50<sup>th</sup> Edition of Bridge 2023 – Chennai (A High Impact industry-institute interaction event) organized by ICT Academy, on 14<sup>th</sup> March, 2023 at Chennai Trade Centre, Chennai.
- Participated in the National Webinar on “Applications of Physics in Medicine” jointly organized by the PG and research Department of Physics, Auxilium College (Autonomous), Vellore and Department of Physics, Little Flower Degree College, Hyderabad on 22<sup>nd</sup> August, 2023.
- Participated in the National Conference on “Material synthesis and Environmental Sustainability” organized by PG and Research Department of Physics, Sacred Heart College (Autonomous), Tirupattur, Tamil Nadu, India on 26<sup>th</sup> September, 2023.
- Five Day International Online Faculty Development Program (FDP) on “Sustainable Materials and Advanced Research Technologies”, jointly organized by the Departments of Physics, Sacred Heart College, Tirupattur & Scott Christian College, Nagercoil from September 18, 2025 to September 23, 2025.
- International conference on Frontiers in material science for a sustainable future organized by Department of Physics & Chemistry Auxilium College (Autonomous) Vellore on 17.09.2025