

**The American College, Madurai**

**FACULTY PROFILE**

(For IQAC)

**Name** : J.Vijay David  
**Date of Joining** : 01.07.2016  
**Designation** : Lecturer  
**Department** : Physics  
**Mobile** : 9894686982  
**Email** : vijaydavid@americancollege.edu.in



**Educational Qualification:**

Degree	Subject	College/University & Place	Year Completed
B.Sc	Physics	The American College, Madurai	2005
M.Sc	Physics	The American College, Madurai	2009
M.Phil	Physics	The American College, Madurai	2010
Ph.D	Physics	The American College, Madurai	Pursuing

**Specialization in Research:** Crystal Growth

**Skills:**

- Type Writing in English (Both Higher and Lower)
- Type Writing in Tamil (Lower)
- Diploma in Computer Application

**Work Experience:**

Designation	Institution / Company	Year – From (month/year) To (month/year)
Lecturer/Physics	KLN Polytechnic College, Madurai	July 2011 to June 2016
Lecturer/Physics	The American College, Madurai	July 2016 to till date

## **Conference/Workshop/Seminar/Webinar Participated**

- Workshop on Data Analysis and Reduction held during February 4-6, 2008 at the Post Graduate and Research Department of Physics, The American College, Madurai.
- National Conference on Magnetic Materials and Applications organized during January 20-21,2010, Thiagarajar College of Engineering, Madurai.
- One Day Workshop on Astronomy and Astrophysics held at The American College, Madurai on Friday 19, August 2016
- Seminar on My vision corruption free India held on 25.10.2017 at The American College.
- Webinar on Recent Trends in Advanced Material Science organized by PG and Research Department of Physics, The American College during June 19,2020
- Webinar on Teacher Vs Learner: Impact of Covid 19 in colleges organized by IQAC, The American College. On 22 July 2020
- One Day Workshop on Art and Science of Methodical Scientific Writing and Publishing in a High Impact Journal on March 6, 2023 conducted by IQAC and office of the Dean Research, The American College, Madurai.
- International Conference on Smart Materials and Biomolecules organized by PG and Research Department of Physics, The American College, Madurai on 9 and 10 January 2023
- International Conference on Recent Advances in Physics -2024 organized by PG and Research Department of Physics, The American College, Madurai during 10 and 11<sup>th</sup> January 2024
- International Conference on Advances in Smart Materials – 2024 organized by Department of Physics, Saraswathi Narayanan College, Madurai on 9<sup>th</sup> August 2024
- International Conference on Advanced Functional Materials – 2024 organized by Department of Physics, Sri Sivasubramaniya Nadar College of Engineering, Chennai during 17 – 19<sup>th</sup> October 2024.
- International Conference on Role of Physics in Modern Technologies – 2025 organized by PG and Research Department of Physics, The American College, Madurai during 8 and 9<sup>th</sup> January 2025.
- National Conference on Enhancing the Quality of Academics and Research in HEIs organized by the Internal Assurance Cell (IQAC), The American College, Madurai on 28<sup>th</sup> January 2025

**Student's Project under Guidance**

<b>Title</b>	<b>M.Sc/B.Sc</b>
Design a cool and hot measuring pot using semiconductor element	M.Sc.
Sprinkled irrigation robot for agriculture	M.Sc.
Efficiency of Solar cell with and without tracking system	M.Sc.
Cleaning Robot	B.Sc.
Construction of Refracting Telescope	M.Sc.
Wifi Enabled Fingerprint Locking System	B.Sc
Bluetooth Enabled Fingerprint Locking System.	B.Sc.
Study and Construction of ion Thruster	M.Sc
Spectroscopic, Quantum Chemical and Molecular docking studies of Dimyethyl 2 -Bromo-1H-Imidazole – 4,5-Dicarboxylate	M.Sc.

**Administrative/Academic Position (held/currently holding):**

<b>Positions held/currently holding</b>	<b>Year - From (Month/Year) to (Month/Year)</b>
IQAC Representative	June 2022 - Till Date
Academic Administrative Audit In charge	June 2022 - Till Date
SCM Department Representative	June 2023 - Till Date
Department Time Table In charge	2018-2019 - Even Semester, 2019-2020- Odd & Even Semester, 2020-2021- Odd Semester, 2022-2023 - Even Semester, 2023-2024 - Odd & Even Semester, 2024-2025 – Odd & Even Semester

Academic Advisor for 17PSP, 19PHS ,22PSP, 24PHS Series	2017 -2019, 2019-2022, 2022-2024, 2024 – till date
Department Stock Register In charge	June 2023 – till date
UG Students On duty In charge	June 2023 – till date
Field Trip In charge for Boys	July 2016 – till date
Organizing Committee Member in the International Conference	January 9 and 10 <sup>th</sup> 2023, January 10 and 11 <sup>th</sup> 2024, January 8 and 9 <sup>th</sup> 2025
Organizing Committee Member in the PHOBOS, REVERBERATE	July 2016 – till date

### Articles Published in Conference Proceedings:

- A research paper entitled Study and Construction of ion Thruster in the “International Conference on Recent Advances in Physics - 2024(ICRAP’24) organized by PG and Research Department of Physics, The American College, Madurai during 10 and 11 January 2024
- A research paper entitled Synthesis and Characterization of V<sub>2</sub>O<sub>5</sub> in the International Conference on Advances in Smart Materials (ICASMs – 2024) organized by Department of Physics, Saraswathi Narayanan College, Madurai on 9<sup>th</sup> August 2024.
- A research paper entitled Synergistic design of Sr-V<sub>2</sub>O<sub>5</sub>/CNT for Highly Efficient Bifunctional Seawater Electrolysis in the International Conference on Advanced Functional Materials – 2024 organized by Department of Physics, Sri Sivasubramaniya Nadar College of Engineering, Chennai during 17 – 19<sup>th</sup> October 2024.
- A research paper entitled Synthesis and characterization of Barium doped Fe<sub>2</sub>O<sub>3</sub> nanoparticles by sol-gel method in the International Conference on Role of Physics in Modern Technologies – 2025 organized by PG and Research Department of Physics, The American College, Madurai during 8 and 9<sup>th</sup> January 2025.
- A research paper entitled Spectroscopic, Quantum, Chemical and Molecular Studies of Dimethyl 2-Bromo-1H-imidazole 4,5-Dicarboxylate in the International Conference on Role of Physics in Modern Technologies – 2025 organized by PG and Research Department of Physics, The American College, Madurai during 8 and 9<sup>th</sup> January 2025.