

# **Curriculum Vitae**

## **Personal data**

Name : **Capt. Dr. M.M. ARMSTRONG ARASU, Ph.D.**

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Date of Birth: 19.01.1972

### **Profile**

A dynamic, resourceful, diligent, aspiring to make a mark as a top preceptor.

### **Academic Qualifications**

| Degree               | year of passing/<br>completing | University                    | Institution                                     |
|----------------------|--------------------------------|-------------------------------|---|
| Ph.D.<br>(Physics)   | 2011                           | Bharathidasan<br>University   | St. Joseph's college<br>(Autonomous), Trichy-2. |
| M.Phil.<br>(Physics) | 2000                           | Bharathidasan<br>University   | St. Joseph's college<br>(Autonomous), Trichy-2. |
| M.Sc.<br>(Physics)   | 1997                           | Bharathidasan<br>University   | St. Joseph's college<br>(Autonomous), Trichy-2. |
| B.Sc.<br>(Physics)   | 1994                           | Madurai Kamaraj<br>University | Arul Anandar College<br>(Autonomous), Madurai.  |

**Specialization:** Ultrasonics, Density Functional Theory

## **Professional Experience**

| <b>Period</b>         | <b>Position</b>     | <b>Institution</b>                         | <b>Subject / Class Taught</b>  |
|-----------------------|---------------------|--|--|
| June 1999 - present   | Assistant Professor | St. Joseph's College (Autonomous) Trichy-2 | <b><u>M.Sc. (Physics)</u></b><br>(i) Condensed matter Physics<br>(ii) Communication Physics<br>(iii) Statistical Mechanics<br>(iv) Classical Mechanics<br>(v) Nuclear Particle and Astrophysics<br>(vi) Physics for competitive Exams<br>(vii) Material Science<br><b><u>B.Sc (Physics)</u></b><br>(i) Properties of Matter & Sound<br>(ii) Electricity & Magnetism<br>(iii) Heat & Thermodynamics<br>(iv) Optics<br>(v) Spectroscopy<br><b>(vi) Atomic Solid state and Nuclear Physics</b><br>(vii) Environmental Studies<br>(viii) Computer Literacy<br><b><u>B.sc (Mathematics, Chemistry, Computer science &amp; Electronics)</u></b><br>(i) Allied Physics I & II<br>(ii) Applied Physics I & II<br><b><u>Skill based Electives</u></b><br>(i) Instrumentation<br>(ii) Medical Physics<br>(iii) Photography<br>(iv) Electrical Wiring<br>(v) Cell phone Servicing |
| August 1997- May 1999 | Computer Programmer | St. Joseph's College (Autonomous)          | Controller of Examinations   |
| May 1996 – June 1997  | Tutor               | St. Mary's Tuition center, Ahmedabad       | High School  |

## **Co –curricular Activities**

### **a) Conference /Seminars/ Workshops/Orientation Programs Attended**

- 1) International Conference on Laser and their applications, 01 - 04 March 2000, St. Joseph's College (Autonomous), Tiruchirappalli-2.
- 2) International Conference on Nano Technology & Ultrasonics and INDO-US workshop on Nano sonics and Ultrasonics 12<sup>th</sup> to 14<sup>th</sup> January 2011, St. Joseph's College (Autonomous), Tiruchirappalli-2.
- 3) Seminar on 'Recent advances of Laser in Scientific & Industrial Applications', 6<sup>th</sup> and 7<sup>th</sup> September 1999, St. Joseph's College (Autonomous), Tiruchirappalli-2.
- 4) National Symposium on Acoustics (NSA 2000), 22<sup>nd</sup> & 23<sup>rd</sup> November 2000, St. Joseph's College (Autonomous) Tiruchirappalli-2.
- 5) Seminar on 'Recent Trends in Thin Film Technology', 14<sup>th</sup> of February 2003, St. Joseph's College (Autonomous), Tiruchirappalli-2.
- 6) Orientation Programme for Lecturers, 27<sup>th</sup> to 29<sup>th</sup> May 2004, Dr. Ambedkar Cultural Academy, Madurai.
- 7) National Seminar on 'Laser in Technological and Biomedical Applications', 27<sup>th</sup> and 28<sup>th</sup> January 2005, St. Joseph's College (Autonomous), Tiruchirappalli-2.
- 8) National Seminar on 'Digitalised Information Exchange for Quality Sustenance and Enhancement among Accredited Institutions', 3<sup>rd</sup> and 4<sup>th</sup> March 2005, St. Joseph's College (Autonomous), Tiruchirappalli-2.
- 9) Intensive Residential Course on 'The Effect of Globalization & Cultural Nationalism on the Marginalized People', 25<sup>th</sup> to 29<sup>th</sup> May 2007, Indian Social Institute, Bangalore.
- 10) Workshop on 'Nuclear Energy for National Development and Environment Sustainability', 19 to 21 July, 2007, Loyola College, Chennai.
- 11) National Workshop on 'Applications of Radiation and Radio Isotope', 15<sup>th</sup> February 2008, St. Joseph's College (Autonomous), Tiruchirappalli-2.
- 12) Special Programme Organized for the Science and Engineering Faculty with Experts from Board of Research in Nuclear Sciences, Department of Atomic Energy', 13<sup>th</sup> February 2008, Lady Doak College, Madurai.
- 13) National Conference on 'Quality Enhancement and Sustenance in Higher Education Institutions through Six Sigma Quality Strategy', 23<sup>rd</sup> and 24<sup>th</sup> October 2008, St. Joseph's College (Autonomous), Tiruchirappalli-2.
- 14) National Conference on 'Higher Education and National Development: The Challenge of Expansion, Quality and Inclusion', 30<sup>th</sup> and 31<sup>st</sup> January 2009, St. Joseph's College (Autonomous), Tiruchirappalli-2.
- 15) Intensive Residential Course on 'Re-Discovery: Dr. Ambedkar, Periyar and Phula', 22<sup>nd</sup> - 26<sup>th</sup> May 2009, Indian Social Institute, Bangalore.

- 16) National Conference on 'The Role of ICT in Higher Education: Quality, Accessibility and Security', 29<sup>th</sup> and 30<sup>th</sup> January 2010, St. Joseph's College (Autonomous), Tiruchirappalli-2.
- 17) Seminar on 'Recent Advances in Spectroscopic Techniques', 7<sup>th</sup> September 2010, Bishop Heber College (Autonomous), Tiruchirappalli-17.
- 18) Workshop on Physical Ultrasonics, 27<sup>th</sup> February 1999, at St. Joseph's College (Autonomous) Tiruchirappalli-2.
- 19) Workshop on 'Ultrasonics', 29<sup>th</sup> October 2004, St. Joseph's College (Autonomous), Tiruchirappalli-2.
- 20) Workshop on 'Inter-personal Skills for Staff Members', St. Joseph's College (Autonomous), Tiruchirappalli-2.
- 21) National Symposium on Acoustics (NSA 2011), Bundelkhand University, Jhansi (U.P)
- 22) Pre-Commission Course - PRCN/SD/156 on NCC at OTA, Kamptee, Nagpur, 15<sup>th</sup> Sep to 13<sup>th</sup> Dec 2014.
- 23) National Symposium on Acoustics (NSA 2015). National Institute of Oceanography, Dona Paula, Goa. Sep-2015
- 24) Staff orientation course at Bharathidasan University, 19<sup>th</sup> May to 18<sup>th</sup> June 2016.
- 25) International Symposium on Acoustical for Engineering Application (NSA -2016) on 17<sup>th</sup> -19<sup>th</sup> November, 2016 at KIIT college of engineering Gurugram, Haryana.
- 26) One day International seminar on "Material Science and Technology (ISMST-2017)" on 4<sup>th</sup> August 2017 at Mother Teresa Women's University, Kodaikanal.
- 27) International Conference on Advanced Materials on 14.12.2017 at St. Joseph's College (Autonomous) Tiruchirappalli-2.
- 28) Workshop on 'Advances in Particle Physics', at EVR College, Tiruchirappalli-2 on 06.02.2017  
WORKSHOP ON LOCF, St. Joseph's College, 2021-02-12
- 29) International Webinar on Advanced Material Science 2021, St. Joseph's College, Trichy 2, on 03.03.2021
- 30) Opportunities and Approaches to get National and International Fellowship, Noorul Islam Centre for Higher Education, KUMARAKOIL, 2021-06-05
- 31) Online Refresher course on "Advanced Research Methodology", in Ramanujan College, Delhi, 14 days from 21<sup>st</sup> January 2022
- 32) Online Refresher course on "Managing Online Classes & Co-Creating MOOCs 2.0" in Ramanujan College, Delhi, 14 days from 7<sup>th</sup> January 2023
- 33) Refresher course on For NCC SD/JD Army & Navy from 4<sup>th</sup> February to 27<sup>th</sup> February 2023 at OTA, Kamptee, Nagpur.

**b) Papers Presented at International/National Conferences**

- 1) 'Derivation of a new equation to determine the internal pressure of the liquids in terms of non-linear acoustical parameter and experimental conformation' (NSA2005), NAL, Bangalore-37.
- 2) 'Ultrasonic investigation of some binary and ternary mixtures by having propanol as common component', National Symposium on ultrasonics (NSU XVI), Cochin, (2008).
- 3) 'Evaluation of thermo dynamical and excess parameters of some binary and ternary mixtures by having propanol as common component', NSA2008, NSTL, Visakhapatnam.
- 4) 'Study of Thermodynamical and Excess parameters of binary and ternary mixtures by having Propanol as common component', NSA2009, held at Research Centre Imarat, DRDO, Hyderabad.
- 5) 'Evaluation of Thermo Acoustical parameters of some binary mixtures from volume expansivity data', NSA2009, Research Centre Imarat, DRDO, Hyderabad.
- 6) 'Evaluation of Thermo Acoustical parameters of some binary mixtures from volume expansivity data', Eighteenth National Symposium on Ultrasonics (NSU-XVIII), VIT, Vellore.
- 7) 'Study of Thermo dynamical and Excess parameters of some binary and ternary mixtures by having Ethyl acetate as common component' Eighteenth National Symposium on Ultrasonics (NSU-XVIII), VIT University, Vellore.
- 8) 'Acoustical Study on Thermo dynamical and Excess parameters of binary and ternary mixtures', National Symposium on Acoustics (NSA 2010), Rishikesh (U.P).
- 9) 'Study on Thermo-Acoustical parameters of some binary mixtures from volume expansivity data', National Symposium on Acoustics (NSA 2010), Rishikesh (U.P).
- 10) 'Acoustical Study on Thermo dynamical and Excess parameters of ternary mixtures at 308.15K(Methyl acetate +Propanol +Water)', International Conference on Nano Technology & Ultrasonics (ICNU2011), SJC, Trichy-2
- 11) 'Ultrasonic Study on Thermo dynamical and Excess parameters of binary and ternary mixture', National Symposium on Acoustics (NSA 2011), Bundelkhand University, Jhansi (U.P)
- 12) 'Study on Thermo dynamical and Excess parameters of binary liquid mixtures', National Symposium on Acoustics (NSA 2015). National institute of Oceanography, Dona Paula, Goa.
- 13) 'Acoustical Study on Thermo dynamical and Excess parameters of ternary mixtures', National Symposium on Acoustics (NSA 2015). National institute of Oceanography, Dona Paula, Goa.
- 14) 'Acoustical Study on Thermo dynamical parameters of ternary mixtures International Symposium on Acoustical for Engineering Application (NSA -2016) on 17<sup>th</sup> -19<sup>th</sup> November,2016 at KIIT college of engineering Gurugram, Haryana.
- 15) 'Thermo-Acoustical Molecular Interaction Studies in Binary Liquid Mixtures by Ultrasonic Velocity Measurement (Diethylamine + n- Butanol) At 303.15K One day International seminar on "material Science and technology (ISMST-2017)On 4<sup>th</sup> August 2017 at Mother Teresa

women's university, Kodaikanal.

- 16) Investigation of Molecular Interaction in Binary Mixtures of Anisole with methyl Isobutyl ketone at different Temperature on International Conference on Advanced Materials on 14.12.2017 at St. Joseph's College (Autonomous) Tiruchirappalli-2.
- 17) Ultrasonic Viscometer studies on molecular Interaction in Binary Liquid mixtures of propylene Glycol and Dimethyl Sulphoxide at different Temperature on International Conference on Advanced Materials on 14.12.2017 at St. Joseph's College (Autonomous) Tiruchirappalli-2.
- 18) One-pot synthesis of MPA capped Cd Te Quantum Dots for Non-Enzymatic Hydrogen Peroxide Bio sensor Application on International Conference on Advanced Materials on 14.12.2017 at St. Joseph's College (Autonomous) Tiruchirappalli-2.
- 19) NCC – CATC Camp 2(Tn) Bn NCC on 23.01.2020 at Idaypatti Madurai.
- 20) Workshop On LOCF on 12.02.2021 at St. Joseph's College (Autonomous) Tiruchirappalli-2.
- 21) International webinar on Advanced Material science 2021 on 03.03.2021 at St. Joseph's College (Autonomous) Tiruchirappalli-2.
- 22) Opportunities and Approaches to get National and International Fellowship on 05.06.2021 at Noorul Islam Centre for Higher Education, Kumarakoil.
- 23) Annual NCC Training camp 2TN(Battalion), INFANTRY on 24.12.2021 at Trichy-1.
- 24) Advanced Research Methodology on 21.01.2022 at Ramanujan College, Delhi.
- 25) International Conference on Advanced materials 2022 on 11.02.2022 at St. Joseph's College (Autonomous) Tiruchirappalli-2
- 26) In service Teachers Training on 05.05.2022 at Thanthai Periyar Govt Arts and Science College, Tiruchirappalli-02.
- 27) International conference on Crystal Growth and Spectroscopy on 29.08.2022 at St. Joseph's college (Autonomous) Tiruchirappalli-02.
- 28) Managing online Classes and Co creating MOOCS 22.0 on 07.01.2023 at Ramanujan university, New Delhi.
- 29) Orientation Programme for the teaching Faculty on 15.06.2023 at St. Joseph's College (Autonomous) Tiruchirappalli-02.
- 30) Orientation development Programme on patents and consultancy on 20.11.2023 at St. Joseph's College (Autonomous) Tiruchirappalli-02.
- 31) International conference on advanced materials on 08.12.2023 at St. Joseph's College (Autonomous) Tiruchirappalli-02.

**c) Publications**

1. 'Derivation of a new equation to determine the internal pressure of the liquid in terms of non-linear acoustical parameter and experimental conformation'. *Journal of the Acoustical Society of India*, Vol. 33, (2005), pp. 268 – 271.
2. 'Evaluation of thermo dynamical and excess parameters of some binary and ternary mixtures by having propanol as common component'. *Journal of the Acoustical Society of India*, Vol. 35, No. 2, (2008), pp. 86 – 93.
3. 'Study of Thermo dynamical and Excess parameters of binary and ternary mixtures by having Propanol as common component'. *Journal of the Acoustical Society of India*, Vol. 37, No. 3, (2010), pp.105 - 111.
4. Evaluation of Thermo Acoustical parameters of some binary mixtures from volume expansivity data', *Journal of the Acoustical Society of India*, Vol. 37, No. 4, pp. 161 – 168. *Acoustical Study on Thermo dynamical and Excess parameters of binary and ternary mixtures' ... Journal of the Acoustical Society of India*, Vol. 38, No.4, pp. 184 – 189.
5. 'Ultrasonic Studies on Molecular interaction in Ternary liquid mixtures of n-n dimethyl formamide, methyl benzoate, and cyclohexane at 303K, 313K, and 323K at *International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 04 Special Issue: 09 | Sep -2017 www.irjet.net p- ISSN: 2395-0072. © 2017, IRJET | Impact Factor value: 5.181 | ISO 9001:2008 Certified Journal | Page 231*
6. 'Thermo-Acoustical Molecular Interaction Studies in Binary Liquid Mixtures by Ultrasonic Velocity Measurement (Diethylamine + n-Butanol) at 303.15K'' *International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 04 Special Issue: 09 | Sep -2017 www.irjet.net p- ISSN:2395-© 2017, IRJET | Impact Factor value: 5.181 | ISO 9001:2008 Certified Journal |Page 42*
7. 'Acoustical and Thermodynamical Studies in Ternary Mixtures of Ethylene Glycol and Glycerol with Octanol AT 303.15K'*International Research Journal of Engineering and Technology (IRJET) e-ISSN:2395-0056 Volume: 04 Special Issue: 09 | Sep -2017 www.irjet.net p-ISSN:2395-0072 © 2017, IRJET |Impact Factor value: 5.181 | ISO 9001:2008Certified Journal | Page 36*
8. 'Investigation of Molecular Interaction in Binary Mixtures of Anisole with methyl

Isobutyl ketone at different Temperature'. *International Journal of scientific research in Science and technology (IJSRST)*. - pg.no 97-102, e-ISSN: 2395-0056

9. Ultrasonic Viscometer studies on molecular Interaction in Binary Liquid mixtures of propylene Glycol and Dimethyl Sulphoxide at different Temperature'. *International Journal of scientific research in Science and technology (IJSRST)*. - pg.no 89-96, e- ISSN: 2395-0056
10. 'One- pot synthesis of MPA capped Cd Te Quantum Dots for Non-Enzymatic Hydrogen Peroxide Bio sensor Application'. *International Journal of scientific research in Science and technology (IJSRST)*. - pg.no 129-134 e-ISSN: 2395-0056
11. Ultrasonic Studies on Molecular interaction in Ternary liquid mixtures of n-n dimethyl formamide, methyl benzoate, and cyclohexane at 303K, 313K, and 323K. *International Research Journal of Engineering and Technology (IRJET /Vol.No.4 /Page.no 231 / e-ISSN 2395-0072*, Impact. Factor 5.181, 2017
12. Thermo-Acoustical Molecular Interaction Studies in Binary Liquid Mixtures by Ultrasonic Velocity Measurement (Diethylamine + n-Butanol) At 303.15K, *International Research Journal of Engineering and Technology (IRJET / Vol.No 4 / Page.no 42 / e-ISSN 2395-0056*, 5.181, 2017
13. *Acoustical and Thermodynamical Studies in Ternary Mixtures of Ethylene Glycol and Glycerol with Octanol AT 303.15K. International Research Journal of Engineering and Technology (IRJET / Vol.No 4 / Page.no 36 / e- ISSN 2395-0056* 5.181,2017
14. *One- pot synthesis of MPA capped Cd Te Quantum Dots for Non-Enzymatic Hydrogen Peroxide Bio sensor Application*, *International Journal of scientific research in Science and technology (IJSRST)*. *International Conference on Advanced Materials*. - // Page.no 129-134X / e- ISSN 2395-602,2018
15. *International Journal of scientific research in Science and technology (IJSRST)*. Ultrasonic Viscometer studies on molecular Interaction in Binary Liquid mixtures of propylene Glycol and Dimethyl Sulphoxide at different Temperatures, *International Conference on Advanced Materials*. - / 0 / Page.no 89-96 / e- ISSN 2395-602X,2018,
16. Investigation of Molecular Interaction in Binary Mixtures of Anisole with methyl Isobutyl ketone at different Temperatures, *International Journal of scientific research in Science and technology (IJSRST)*. *International Conference on Advanced Materials*. - / - / Page.no 97-102 / e- ISSN 2395-0056,2018.



17. Vibration and Spectroscopic Analysis of 1- bromo 2,3 Dichloro Benzene. *International web conference on advanced materials / Vol.No 01 / 75 / 2019*
18. Evaluation of Thermodynamical Acoustic parameters of Binary Mixtures of Dimethyl Malonate with Acetophenone at different temperatures, *International web conference on advanced materials / Vol.No 01 / Page.no 28,2019,*
19. The study of Physicochemical Properties of Binary liquid mixtures of Dimethyl sulfoxide with Acetonitrile Through ultrasonic Velocity measurement technique, *International web conference on advanced materials / 01 / 24,2019.*
20. Spectroscopic investigations (FTIR, UV-VIS, NMR) and DFT calculations on the molecular structure of N $\omega$ -Nitro-L-arginine, *Journal of the Indian Chemical Society / Vol.No 99 / Page.no 100437 / ISSN 194522, Impact factor.45, H. Index 32, cindex .284,2022*
21. Molecular conformation, electronic transitions and Spectroscopic (FT-IR, UV-Vis) characterization of N-Carbobenzoxy-L -Valine: A DFT approach, *Stochastic Modeling and Applications, Volume 26 (2022) January-June, Special Issue Part-2)*
22. Molecular structure, Vibrational, UV-VIS, HOMO-LUMO, MEP, NLO, NBO Analysis of  $\alpha$ -carbobenzoxy-l-Arginine, *Stochastic Modelling and Applications, Volume 26 (2022) January-June, Special Issue Part-2 Page.no.726-740*
23. Investigations on  $\alpha$  Carbobenzoxy-l-Arginine by NMR spectroscopy, DFT and Molecular Docking Studies, *Stochastic Modelling and Applications, Volume 26 (2022) January-June, Special Issue Part-2, Page.no.726 741-756*
24. Concentration dependent Dy<sup>3+</sup> doped lithium fluoro borotelluorophosphate glasses' structural and optical investigation for white light emission under UV excitation for solid-state lighting applications - *Journal of the Indian Chemical Society Vol.no651 pages 414590 ISSN 194522, Impact factor.45, H. Index 32, cindex .284,2023.*
25. Compound Nucleus Formation Probability of Actinide Nuclei Synthesized Using Hot Fusion Reactions, <http://dx.doi.org/10.2139/ssrn.4600815>
26. Optical incident energy of heavy ion fusion, *Phys. Rev C 109, 024610 – published 15 February 2024*
27. Compound nucleus formation probability of heavy and superheavy nuclei synthesized using heavy ion fusion reactions, *Nuclear Analysis, 31 July 2024, 100123*
28. Empirical model for fusion cross sections of Ca-induced reaction, *Chinese physics C, Volume 48, number 3, 034104, (2024)*

**d) Best Paper Award**

Received the Best Research Paper award from “**Madras –India Regional Chapter of the Acoustical Society of America**”, NSA, 26-28 November 2009, Research Centre Imarat, DRDO, Hyderabad, A.P.

**e) Best Associate NCC Officers Award**

Received Best Associate NCC Officers Award – “**Certificate of Excellence**” By the Rock fort Group NCC for the year of 2021-2022.

**f) Examinership & Question Paper Settership**

- 1) Examiner, Central Valuation, UG (Physics), Bharathidasan University since November 2003.
- 2) Examiner, UG (Physics) Theory & Practical's, St. Joseph's College (Autonomous), Tiruchirappalli-2, since April 2000.
- 3) Question Paper Setter, UG, PG & M.Phil., (Physics), St. Joseph's College (Autonomous), Tiruchirappalli-2, since April 2000.
- 4) Examiner, UG and PG (Physics), Holy Cross College (Autonomous), Tiruchirappalli-2.
- 5) Examiner, UG (Physics) Theory & Practical's, Nehru Memorial College (Autonomous), Puthanampatti.
- 6) Examiner, Bharathidasan University UG (Physics), Practical's, Cauvery College for Women, Tiruchirappalli.
- 7) Examiner, Bharathidasan University UG (Physics) Practical's, Srimati Indra Gandhi College, Tiruchirappalli.
- 8) Examiner, Bharathidasan University UG (Physics) Practical's, Mahatma Gandhi Arts & Science College, Pudukkottai.
- 9) Examiner, UG (Physics) Theory & Practical's, Bishop Heber college (Autonomous), Trichy.
- 10) Question Paper Setter, UG and PG (Physics), Holy Cross College (Autonomous), Tiruchirappalli-2.
- 11) Question Paper Setter, UG (Physics), Nehru Memorial College (Autonomous), Puthanampatti.
- 12) Question Paper Setter for UG & PG (Physics), Sarah Tucker College, Tirunelveli-7.
- 13) Question Paper Setter for UG & PG (Physics) Seethalakmi Ramasami College (autonomous) Trichy.
- 14) Question Paper Setter for UG & PG (Physics) Government Arts and science college for women, Pudukkottai.
- 15) Question Paper Setter for UG & PG (Physics) Lady Dock College, Madurai.

### **Extra-curricular Activities**

- 1) 'B' Certificate holder in NCC
- 2) Attended the Annual Training Camp at Dindigul from 27.9.1992 to 08.10.1992
- 3) Attended the National Integration Camp at Vellore from 08.01.1994 to 19.01.1994
- 4) Attending Campaign Annual Training Camp Conducted by **2(TN)Bn** every year since 2015 as ANO
- 5) Have completed a Certificate Course in Food and Nutrition.
- 6) Have participated in Inter-College Competitions at various Colleges as an undergraduate.
- 7) Have won Prizes in sports at School level.
- 8) Top Scorer at School level.
- 9) Have participated in many cultural events at School and College levels

### **Administrative Skills**

- 1) **Company Commander** (Associate NCC Officer- **ANO**) of 1COY 2TN(Bn) NCC ARMY WING (INFANTRY) Since 16.10.2014
- 2) Care taker of 1COY 2TN(Bn) NCC ARMY WING (INFANTRY) During July 2012 to Sep 2014
- 3) Staff In-charge, Cultural, Department of Physics, St. Joseph's College, for more than twenty years
- 4) Sports Manager, Department of Physics, St. Joseph's College, for more than twenty years
- 5) Member, Students' Discipline Committee Since 2013 in St. Joseph's College.
- 6) Secretary, SJC Teaching Staff Association from August 2017 to July 2019.
- 7) Secretary, Aided College Teachers' Association (ACTA) from July 2019-August 2021
- 8) Executive Member, SJC Teaching Staff Association from July 2021 to July 2023.

### **Organization Skills**

- 1) Member, Discipline, Travel and Accommodation Committee, Food and Refreshment, International and National Conferences held in Department of Physics, St. Joseph's College (Autonomous) Trichy-2, since 1999.
- 2) Organizer, Annual tour for staff and educational tour for students all over the country, since 1999.

### **Computer Competency**

Completed course in PGDCA at St. Xavier Institute of Computer Science, Ahmedabad, Gujarat. In July 1997

### **Other Distinctions**

- 1) Resource Person since June 2008, *Directorate of Distance Education, Bharathidasan University*, for M. Sc (Physics): Statistical Mechanics Classical Dynamics and Relativity.
- 2) Resource person, *Young Scientist Students Programme*, St. Joseph's College, Trichy-2, 2001& 2002.
- 3) Acted as a Resource Person for the 'Three- day Special Lectures Programme for P.G. Physics Teachers' from 12<sup>th</sup> to 14<sup>th</sup> November 2009 at St. Joseph's College (Autonomous) Tiruchirappalli-2.
- 4) Resource person for national Seminar on Current Trends in Material Science and Nano structured materials from 23<sup>rd</sup> & 24<sup>th</sup> January 2013 at Cauvery College for Women, Trichy - 620018.
- 5) **Assistant Director** of New Hostel, St. Joseph's College (Autonomous)Trichy-2 from January 2000 to May 2003 with 750 inmates.

### **Research supervision/Guidance**

|        |                          |
|--------|--------------------------|
| Ph. D: | -2 Completed As Guide    |
|        | -2 Completed As Co-Guide |
|        | - 3 On going             |
| M.Phil | -21. Completed           |
| M.Sc   | more than 64 students.,  |

### **Languages**

- i) Tamil - Spoken and Written
- ii) English - Spoken and Written
- iii) Hindi –Spoken

(Capt. Dr. M. M. ARMSTRONG ARASU)