

PROFILE

Dr. N.VENKATESH BHARATHI

Assistant Professor

PG and Research Centre of Physics (SF Wing)

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Academic Qualifications:

Doctoral Research - Ph.D.,

- **University** : Madurai Kamaraj University, Madurai, India.
- **Title** : Synthesis and Luminescence Investigation of some Phosphor Materials
- **Year** : 2022

Post-Graduation

- **College** : N.M.S.S.V.N. College, Madurai, India.
- **Degree** : Master of Science in Physics
- **Year** : 2016

Under-Graduation

- **College** : Mannar Thirumalai Naicker College, Madurai, India.
- **Degree** : Bachelor of Science in Physics
- **Year** : 2014

Teaching Experience: 2 years and 10 months (from 06.09.2021 to till date)

Employment Status: Assistant Professor

PG and Research Centre of Physics (SF Wing),
Mannar Thirumalai Naicker College (Autonomus),
Pasumalai, Madurai - 4.

Awards:

- **March 2014 - "The Best Outgoing Student" Award**
- **March 2014 - "Man sans Frontiers" Award**
- **April 2016 - "IInd Rank" in M.Sc., Physics degree examination**
- **Young Researcher Award for the year 2023 from InSc Institute of Scholars.**

Research Interest:

- Low temperature crystal growth and their characterizations, Crystal structure analysis through DFT
- Nano powders, Phosphor materials - Synthesis, their characterization and structure determination
- Solid state ionics - Energy storage devices

Research Experience:

- **PG Project (2015 - 2016)**
Title: "Growth and Characterization of ZnO doped Glycine Single Crystal."
- **Ph.D. (2018 - 2022)**
Title: "Synthesis and Luminescence Investigation of some Phosphor Materials."
- Total Number of Publications in UGC Care/SCI/WoS Journal: **11**
- Total Number of Citations : **79**
- h-index: **6**
- i10- index: **4**
- Number of Papers under review: **2**
- Received a project under the scheme of **Institutional Sponsored Faculty Research Project** for the Academic Year **2022-2023**.
Title: "Synthesis and luminescence investigation of mirror symmetric co-doped Europium (Eu³⁺)/Dysprosium(Dy³⁺) Barium Vanadate (Ba₂V₂O₇) phosphor for optoelectronic applications"

Skills:

Lab management, working with statistical tools, Microsoft Office, C & C++.

Good written and verbal communication with fluency in English and Tamil.

Good verbal communication with fluency in Telugu.

Research Publications:

1. Effect of ZnO and co-doped ZnO additive in the growth, structural, optical and mechanical properties of glycine single crystals, P. Kavitha, **N. Venkatesh Bharathi**, V. Nagarajan, S. Ramaswamy*, *IJAERD*, 2018, Vol. 5.
2. Synthesis and characterization of self-activated Ba₂V₂O₇ nanophosphor: A Potential Material for W-LED Applications, **N. Venkatesh Bharathi**, T. Jeyakumaran, S. Ramaswamy*, S.S. Jayabalakrishnan, *Material Research Express*, 2019, Vol. 6(10). DOI: 10.1088/2053-1591/ab3c1d/meta.
3. Facile synthesis, vibrational, optical and improved luminescence properties analysis of Ca₂KZn₂V₃O₁₂ phosphor, T. Jeyakumaran, **N. Venkatesh Bharathi**, P. Sriramachandran, R. Shanmugavel and S. Ramaswamy*, *Material Research Express*, 2019, Vol. 6(11). DOI: 10.1088/2053-1591/ab51b8/meta.
4. Effect of ZnO with alkali metals as an additive in the growth, structural, optical, electrical and mechanical properties of glycine single crystals, P. Kavitha, **N. Venkatesh Bharathi** and S. Ramaswamy*, *AIP Conference Proceedings*, 2019, 2162, 020046. DOI: 10.1063/1.5130256.
5. Synthesis and Luminescence Investigation of Eu³⁺ Doped Ca₂KZn₂V₃O₁₂ Phosphors: A Potential Material for WLEDs Applications", T. Jeyakumaran, **N. Venkatesh Bharathi**, P. Sriramachandran, R. Shanmugavel, S. Ramaswamy*, *Journal of Inorganic and Organometallic Polymers and Materials*, 2021, Vol. 31, 674-682. DOI: 10.1007/s10904-020-01696-2.
6. Structural, Vibrational, Optical and Improved Photoluminescence Properties of Dy³⁺ Doped Ca₂KZn₂V₃O₁₂ Phosphors, T. Jeyakumaran, **N. Venkatesh Bharathi**, P. Sriramachandran, R. Shanmugavel,

- S. Ramaswamy*, Journal of Inorganic and Organometallic Polymers and Materials, 2021, Vol. 31, 695–703. DOI: 10.1007/s10904-020-01766-5.
7. Synthesis and characterization of a novel $\text{Ba}_{2-x}\text{V}_2\text{O}_7:\text{xDy}^{3+}$ phosphor by hydrothermal method for WLED applications, **N. Venkatesh Bharathi**, T. Jeyakumaran, S. Ramaswamy*, S.S. Jayabalakrishnan, AIP Conference Proceedings, 2021, Vol. 2352(1), 020052, DO: 10.1063/5.0052421.
 8. **N.Venkatesh Bharathi**, T.Jeyakumaran, S.Ramaswamy, S. S. Jayabalakrishnan, "Synthesis and characterization of a Eu^{3+} -activated $\text{Ba}_{2-x}\text{V}_2\text{O}_7:\text{xEu}^{3+}$ phosphor using a hydrothermal method: a potential material for near-UV-WLED applications", Luminescence: The journal of biological and chemical luminescence, 36 (2021) 849-859.
 9. **N. Venkatesh Bharathi**, P. Kavitha , S. Ramaswamy, S.S. Jayabalakrishnan, "Turning of luminescence properties of $\text{Ba}_2\text{V}_2\text{O}_7$ phosphors by co-doping $\text{Eu}^{3+}/\text{Dy}^{3+}$ ions", Bulletin Materials Science, 45 (2022) 1-9.
 10. **N. Venkatesh Bharathi**, P. Kavitha, S. Ramaswamy, S.S.Jayabalakrishnan, Synthesis and luminescence investigation of $\text{Ba}_2\text{V}_2\text{O}_7$ -co-doped $\text{Dy}^{3+}/\text{Eu}^{3+}$ phosphors for white light-emitting diode applications, Indian Journal of Physics, 2023, <https://doi.org/10.1007/s12648-022-02503-z>.
 11. **N. Venkatesh Bharathi**, K. Sakthipandi, S. Monisha, Synthesis and luminescence investigation of mirror symmetric europium and dysprosium co-doped barium vanadate phosphor for optoelectronic applications, Chemical Physics Impact, 8(2024) 100506.
 12. P. Kavitha, S. Christopher Jeyaseelan, **N. Venkatesh Bharathi**, T. C. Sabari Girisun, Crystal structure, Hirshfeld surface, DFT computation and nonlinear absorption studies of DL-Methioninium maleate, **under review** in Journal of Crystal Growth.
 13. S. Monisha, P. Prameela, **N. Venkatesh Bharathi**, G. Boopathi, S. Selvalakshmi, S. Gnanam, J. Gajendiran Solution Casting Synthesis of Tamarind Seed Polycarbohydrate-Lithium Nitrate-Based Polymer Electrolyte: Study of Thermo-Electrical Properties for Testing Electrochemical Device Applications, **under review** in Polymer.

List of Papers Presented in Conferences / Seminars:

1. P. Kavitha, N. **Venkatesh Bharathi**, V. Nagarajan, S. Ramaswamy, *Effect of ZnO Additive in the Growth, Optical and Mechanical Properties of a Glycine Single Crystals*, 2nd International Conference on Materials and Technology-Synthesis, Processing and Applications (ICMAT-SPA) 2018 held at SRNM College (Autonomous), Sattur, February 20th & 21st 2018.
2. P. Kavitha, N. Venkatesh Bharathi, V. Nagarajan, **S. Ramaswamy**, *Effect of ZnO and co-doped ZnO additive in the growth, structural, optical and mechanical properties of glycine single crystals*, International Conference on Momentous role of Nanomaterials in Renewable Energy devices (IC MNRE-2018), Alagappa University, Karaikudi, March 1st & 2nd 2018.
3. P. Kavitha, **N. Venkatesh Bharathi**, V. Nagarajan, S. Ramaswamy, *Growth and characterization of ZnO doped and co-doped glycine single a Crystals*, National Seminar on New Materials Research and Nanotechnology (NSNMRN 2018), The Sethupathy Government Arts College, Ramanathapuram, March 19th & 21st 2018.
4. **N. Venkatesh Bharathi**, T. Jeyakumaran, P. Kavitha, S. Ramaswamy, *Synthesize and characterization of CdS (0 0 2) and ZnS nano particles using hydrothermal method*, 4th National Seminar on Technologically Important Crystalline and Amorphous Solids (TICAS-2018) held at Kalasalingam University, Krishnankovil, March 2nd & 3rd 2018.
5. **Venkatesh Bharathi Nagarajan**, Jeyakumaran Thavamany, Ramaswamy Seenivasan, *Synthesis and Characterization of Self-activated Ba₂V₂O₇ Nano Phosphor: A Potential Material for W-LEDs Applications*, 5th International Conference on Nanoscience and Nanotechnology (**ICONN-2019**) held at SRM University, Chennai, January 28th to 30th 2019.
6. **N. Venkatesh Bharathi**, T. Jeyakumaran, S. Ramaswamy, *Synthesis and characterization of europium doped barium vanadate phosphor for wled applications*, National Conference on Recent Developments in Effective Materials (**REDEEMS '20**) held at Sarah Tucker College, Thirunelveli, February 7th 2020.
7. **N. Venkatesh Bharathi**, T. Jeyakumaran, S. Ramaswamy, *Synthesis, characterization and WLED device fabrication of Eu³⁺ activated Ba₂V₂O₇ phosphor: A potential material for solid state lighting application*, International

Conference on Advanced Materials (**ICAM-2020**) held at Arul Anandar College, Karumathur, Madurai, February 11th and 12th 2020.

8. **N. Venkatesh Bharathi**, T. Jeyakumaran, S. Ramaswamy, *Synthesis and characterization of a novel $Ba_2V_2O_7:xDy^{3+}$ by hydrothermal method for WLED applications*, 5th National e- Conference on Advanced Materials and Radiation Physics (AMRP-2020) held at Sant Longowal Institute of Engineering and Technology, Longowal, Distt. Sangrur-148106 (Punjab), November 9th - 11th, 2020.
9. **N. Venkatesh Bharathi**, K. Sakthipandi, S. Ramaswamy, *Effect of pH on luminescent properties of $Ba_2V_2O_7$ phosphor for WLED applications: synthesized by hydrothermal method*, DAE-BRNS 9th Interdisciplinary Symposium on Materials Chemistry held at Bhabha Atomic Research Centre, Mumbai, India, December 7th - 10th 2022.
10. J.Akila, S. Amirthavarshini, M. Selvameenakshi, **N. Venkatesh Bharathi**, K. Sakthipandi & S. Ramaswamy, *Influence of pH on the Luminescence Properties of the Hydrothermal Derived $Ba_2V_2O_7$ Phosphors*, 1st International Conference on "Recent Advancement in Material Science and its Applications (ICRAMSA '23)", Research and PG Department of Physics, held at Mannar Thirumalai Naicker College, Madurai on 11th & 12th January 2023.
11. S. Amirthavarshini, J.Akila, M. Selvameenakshi & **N. Venkatesh Bharathi**, *Synthesis and Luminescence Investigation of Symmetric Co-doped Eu^{3+}/Dy^{3+} $Ba_2V_2O_7$ Phosphor for Optoelectronic Applications*, 1st International Conference on "Recent Advancement in Material Science and its Applications (ICRAMSA '23)", Research and PG Department of Physics, held at Mannar Thirumalai Naicker College, Madurai on 11th & 12th January 2023.
12. R. Sindhan, **N. Venkatesh Bharathi** & S. Ramaswamy, *Radiative Transition Parameters for the $E^2\Pi-X^2\Sigma^+$ System of Barium Monohydride (BaH) Molecule*, 1st International Conference on "Recent Advancement in Material Science and its Applications (ICRAMSA '23)", Research and PG Department of

Physics, held at Mannar Thirumalai Naicker College, Madurai on 11th & 12th January 2023.

13. M.N. Jothi, R. Rajammal, N. Venkatesh Bharathi, *Synthesis and characterization of Zirconium dioxide nanoparticles in the solar cell application*, 1st International Conference on "Recent Advancement in Material Science and its Applications (ICRAMSA '23)", Research and PG Department of Physics, held at Mannar Thirumalai Naicker College, Madurai on 11th & 12th January 2023.

Scientific Workshops/Trainings/Conference participations:

1. Participated in the State Level Students' Seminar on "**From Micro to Nano changing world**" organized by the Department of Physics, on 5th October 2011, at Thiagarajar College, Madurai.
2. Participated in the National level Seminar on "**Polymers: Synthesis, Characterization and Applications**" organized by the Department of Physics (Under UGC Autonomy Grant), on 21st & 22nd October 2012, at Mannar Thirumalai Naicker College, Madurai.
3. Participated in the National level Seminar on "**Recent Trends in Physics**" organized by the Department of Physics (Under UGC Autonomy Grant), on 20th February 2013, at Sourashtra College, Madurai.
4. Participated in the State Level Students' Seminar on "**Application of Physics in Biology & Medicine**" organized by the Department of Physics, on 22nd February 2013, at Thiagarajar College, Madurai.
5. Participated in the National level Seminar on "**X-Ray Crystallography**" organized by the PG & Research Department of Physics (Under UGC Autonomy Grant), on 14th February 2014, at NMSSVN College, Madurai.
6. Participated in the National level Workshop on "**Computational Physics using Gaussian**" organized by the PG & Research Department of Physics (Under UGC Autonomy Grant), on 13th February 2015, at NMSSVN College, Madurai.

7. Participated in the National level Seminar on **“Recent Trends in Ultrasonic Applications of Medical Physics”** organized by the Department of Physics (Under UGC Autonomy Grant), on 31st July 2015, at Mannar Thirumalai Naicker College, Madurai.
8. Participated in the National level Seminar on **“Nanoscience and Nanotechnology”** organized by the PG & Research Department of Physics (Under UGC Autonomy Grant), on 18th February 2016, at NMSSVN College, Madurai.
9. Participated in the National Seminar on **“Spectroscopic Approaches for Biological and Physical Systems”** organized by the PG & Research Department of Physics (Under UGC Autonomy Grant), on 2nd February 2018, at NMSSVN College, Madurai.
10. Participated in the International Workshop on **“Industry 4.0 for SMEs”** organized by SACS MAVMM Engineering College, on 8th February 2018, at Madurai.
11. Participated in the National Seminar on **“Trends in Theoretical Physics”**, organized by the PG & Research Department of Physics (Under UGC Autonomy Grant), on 22nd February 2019, at NMSSVN College, Madurai.
12. Participated in the National Conference on **“DESIGN AND APPLICATIONS OF EMERGING MATERIALS (NCDAEM - 2020)”** organized by the PG & Research Department of Physics (Under UGC Autonomy Grant), on 19th February 2020, at NMSSVN College, Madurai.
13. Participated in the webinar on **“MICRO & NANOTECHNOLOGY AND ITS APPLICATIONS”** organized by Department of Physics, on 14th May 2020, at G.T.N. Arts College (Autonomous), Dindigul.
14. Participated in the International Webinar on **“THIN-FILM TECHNOLOGIES IN OUR DAILY LIFE”**, organized by the PG and Research Department of Physics, on 30th May 2020, at Nadar Mahajana Sangam S. Vellaichamy Nadar College, Nagamalai, Madurai.
15. Participated in the Two days Webinar on **“ENGINEERING MATERIALS AND ITS APPLICATION”** organized by the School of Science and

Humanities, Department of Physics, on 17th -19th June 2020, at Sathyabama Institute of Science and Technology, Chennai.

16. Participated in the International Webinar series on **“ASTRONOMY AND ASTROPHYSICS”** organized by the Department of Applied Physics, on 19th June 2020, at Karunya Institute of Technology and Science, Coimbatore.
17. Participated in the Webinar on **“RECENT TRENDS IN SOLAR ENERGY MATERIALS”** organized by the Department of Physics, on 26th June 2020, at Dr.Zakir Husain College, Ilayangudi.
18. Participated in International Virtual Conference on **“ADVANCED MATERIALS FOR ENERGY AND ENVIRONMENTAL APPLICATIONS (ICAMEEA - 2020)”** organized by the International Relationship Centre, on 26-27th June 2020, at Bharathidhasan University, Tiruchirappalli.
19. Participated in the One day National Webinar on **“RECENT RESEARCH TRENDS IN CHEMISTRY”** organized by the Department of Chemistry and Science, on 26th June 2020, at Nabira Mahavidyalaya in collaboration with Sant Gadgemaharaj Mahavidyalaya Higna, Dist. Nagpur.
20. Participated in the International Webinar on **“ADVANCES IN FUNCTIONAL MATERIALS (IWAFFM)”** organized by the Department of Physics, on 26th - 28th June 2020, at Mar Ivanios College, Thiruvananthapuram.
21. Participated in the International Webinar on **“SEMICONDUCTOR DESIGN PROCESS IN INDUSTRIES - 2K20”** organized by the Department of Physics, on 29th June 2020, at Manonmaniam Sundaranar University Constituent College, Kanyakumari.
22. Participated in the Webinar on **“MATHEMATICS-QUALITATIVE BEHAVIOURS OF FRACTIONAL DELAY DIFFRACTIONAL EQUATIONS”** organized by the Department of Science and Humanities, on 2nd July 2020, at Amirtha College of Engineering & Technology, Kanyakumari.
23. Participated in the National Level Webinar on **“STABLE ORGANIC-INORGANIC HYBRID HALIDE PEROVSKITE NANOCRYSTALS FOR**

- LEDs" organized by the PG & Research Department of Physics, on 3rd July 2020, at Thiagarajar College, Madurai.
24. Participated in the Webinar on **"CHEMISTRY-SMART MATERIALS FOR SECURITY APPLICATIONS: CHALLENGES AND OPPORTUNITIES IN ANTI-COUNTERFEITING"** organized by the Department of Science and Humanities, on 3rd July 2020, at Amirtha College of Engineering & Technology, Kanyakumari.
25. Participated in the Webinar on **"RESEARCH GETTING PUBLISHED"** organized by the Department of Science and Humanities, on 4th July 2020, at Amirtha College of Engineering & Technology, Kanyakumari.
26. Participated in the Webinar on **"SMART MATERIALS AND APPLICATIONS"** organized by the Department of Physics, on 9th July 2020, at Kamaraj College, Thoothukudi.
27. Participated in the Webinar on **"EPOCH OF NONLINEARITY IN OPTICS"** organized by the Department of Physics, on 29th July 2020, at Mannar Thirumalai Naicker College, Madurai.
28. Participated in the Webinar on **"NANOPOROUS ACTIVATED CARBON FOR ENERGY STORAGE AND ENERGY CONVERSION"** organized by the PG and Research Department of Physics, on 13th October 2021, at Nadar Mahajana Sangam S. Vellaichamy Nadar College, Nagamalai, Madurai.
29. Participated in the National Webinar on **"INTRODUCTION AND APPLICATIONS OF RAMAN SPECTROSCOPY"** organized by the PG and Research Department of Physics, on 09th November 2021, at Nadar Mahajana Sangam S. Vellaichamy Nadar College, Nagamalai, Madurai.
30. Participated in **"FOUR DAYS INTERNATIONAL WEBINAR IN ADVANCED NANOTECHNOLOGY & MATERIAL RESEARCH"** organized by Department of Physics & Chemistry, on 09th to 12th March, 2022, at LathaMathavan Arts and Science College, kidaripatti, Alagarkovil, Madurai.

31. Participated in the National level Seminar on **“Emerging Trends in Physics”** organized by the PG Department of Physics, on 19th April 2022, at Mannar Thirumalai Naicker College, Madurai.
32. Participated in the International Online Workshop on **“ACADEMIC WRITING - ETHICAL ISSUES”** organized by Global Institute of Statistical Solutions, Chennai from 18th to 20th June 2022.
33. Participated in **“ONE DAY INTERNATIONAL WEBINAR ON ADVANCED FUNCTIONAL MATERIALS”** organized by PG & Research Department of Physics, on 28th September 2022, at Gonzaga College of Arts and Science for Women, Krishnagiri, Tamil Nadu.
34. Participated in the International webinar on **“IMPACT OF THE ARTIFICIAL INTELLEGENCE IN TECHNOLOGYCAL DEVELOPMENT (IAITD)”** organized by Dambi Dollo University, Ethiopia, on 27th January 2023.
35. Participated in Workshop on **“PATENTS, DESIGN & FUNCTIONAL ASPECT OF IPR”** organized by Faculty Research Forum, School of CS & IT, Jain University, Bengaluru, Karnataka on 28th January 2023.
36. Participated in **“NATIONAL WEBINAR ON SMART MATERIALS AND APPLICATIONS”** organized by PG & Research Department of Physics, on 27th & 28th February 2023, at Gonzaga College of Arts and Science for Women, Krishnagiri, Tamil Nadu.
37. Participated in **“INTERNATIONAL VIRTUAL CONFERENCE ON RECENT TRENDS IN PHYSICS”** organized by PG & Research Department of Physics, on 16th & 17th March 2023, at Jayaraj Annapackiam College for Women, Periyakulam, Theni.
38. Participated in one-day workshop in **“ELUCIDATION OF CHEMICAL STRUCTURES AND QUANTIFICATION OF CRYSTALLINE PHASE FORMATION”** organized by Division of Physics and Chemistry, School of Advanced Science (SAS), on 6th June 2023, at Vellore Institute of Technology, Chennai.

39. Participated in Webinar on **"VOLTAMMETRIC TECHNIQUES FOR (BIO) SENSING AND ENERGY STORAGE APPLICATIONS"** organized by Division of Physics, on 24th June 2023, at Velammal Institute of Technology, Chennai.

Faculty Development Programme/Short Term Course attended:

1. Participated in the National Level Five Day faculty development program on **"Scilab (Remote Learning Through Spoken Tutorial)"** organized by the Department of Science & Humanities in association with IIT-Bombay, on 15th - 19th June 2020, at St. Peter's Engineering College, Hyderabad, Telangana.
2. Participated in the Online one week Faculty Development Program on **"INNOVATIONS IN APPLIED RESEARCH FOR SCIENCE AND TECHNOLOGY"** organized by the Department of Basic Science and Humanities, on from 11th to 18th October 2021, at KDKCE Nagpur in association with Indian Association for Radiation Protection (IARP), Luminescence Society of India (LSI) & Society for Technologically Advanced Material of India (STAMI).
3. Participated in the **"TWO DAY ONLINE FACULTY DEVELOPMENT PROGRAMME ON CONDENSED MATTER PHYSICS"** organized by the PG and Research Department of Physics and Internal Quality Assurance Cell, Jamal Mohamed College (Autonomous), Tiruchirappalli in collaboration with Indian SpectroPhysics Association (ISPA-Chennai) under DBT Star College Scheme during the period 24th & 25th January 2022.
4. Participated in seven days Faculty Development Program on **"ENHANCING EQUALITY BY UNDERTAKING INNOVATIVE PRACTICES EQUIP-2022"** organized by IQAC of Mannar Thirumalai Naicker College, Madurai and APC Mahalaxmi College for Women, Thoothukudi in collaboration with IQAC CLUSTER 18th to 24th April 2022.
5. Participated in three days Faculty Development Program on **"STRESS MANAGEMENT"** conducted by ICT Academy, on 22nd to 24th August 2022, at Mannar Thirumalai Naicker College, Madurai.

6. Participated in the Faculty Research Programme on **“DYNAMICS OF RESEARCH PUBLICATIONS”** organized by IQAC of Mannar Thirumalai Naicker College, Madurai on 15th & 16th September 2022.
7. Participated in three days virtual FDP program on **“EMERGING TECHNOLOGIES FOR EDUCATION AND RESEARCH”** organized by the Department of CSE, ECE & EEE, from 30th January to 1st February 2023, at Sree Sakthi Engineering College, Coimbatore.
8. Participated in the Faculty Enhancement Programme on **“CONSULTANCY AND CORPORATE TRAINING”** organized by IQAC of Mannar Thirumalai Naicker College, Madurai on 17th March 2023.
9. Participated in the Faculty Development Programme on **“INSIGHTS OF NATIONAL EDUCATION POLICY” (NEP 2020)** organized by IQAC of Mannar Thirumalai Naicker College, Madurai on 18th March 2023.
10. Participated in the Five Days Online Faculty Development Programme on **“RECENT INDUSTRY TRENDS AND TECHNOLOGY IN CLOUD COMPUTING”** organized by School of Computer Science and Engineering in association with MUJ-TEC, Manipal University Jaipur on 15th to 19th May 2023.
11. Participated in the One Week Faculty Development Programme on **“ARTIFICIAL INTELLIGENCE IN ADVANCED MACHINE LEARNING AND CLOUD COMPUTING (AIAMLCC2023)”** organized by Department of Computer Science and Engineering in association with IQAC, Haldia Institute of Technology, West Bengal, on 10th to 14th July 2023.
12. Participated in the One Week Online Short Term Course On **“MACHINE LEARNING AND ITS APPLICATIONS IN IoT, COMPUTER VISION AND CLOUD COMPUTING (MICC-2023)”** organized by Department of Computer Science and Engineering, National Institute of Technology Jamshedpur, on 10th to 14th July 2023.

Membership Details in Professional Bodies:

- InSc Life time Professional Member and Reviewer.

Others:

1. Served as Faculty Co-ordinator and successfully organized Two days Hands-on Training Programme on **“SMART PHONE SERVICING AND TROUBLESHOOTING”** on 09th & 10th April 2022.
2. Served as Co-convener and successfully organized the International Conference on **“RECENT ADVANCEMENT IN MATERIAL SCIENCE AND ITS APPLICATIONS (ICRAMSA '23)”** on 11th & 12th January 2023.
3. Served as Editor in the International Conference proceedings on **“RECENT ADVANCEMENT IN MATERIAL SCIENCE AND ITS APPLICATIONS (ICRAMSA '23)”** on 11th & 12th January 2023.
4. Appointed as National Service Scheme (NSS) Programme Officer (PO) for NSS unit No.: 68 (Men SF) in Mannar Thirumalai Naicker College, Madurai, from 27th June 2023 to till date.
5. Appointed as Question Paper Setter for the Autonomous End Semester Examinations Nov/Dec-2023 and APR/MAY-2024 for AVS COLLEGE OF ARTS & SCIENCE (Autonomous), Salem-106.
6. Acted as a resource Person and delivered the talk and handle the hands-on session on **“Workshop on Handling Measuring Instruments for Laboratory Staff”** (under the DBT Star College Scheme) , organized by the Department of Physics, Vivekananda College, Tiruvedakam west, Madurai - 625234 held on 6th March 2024
7. Acted as a reviewer for the Journal of Chemical Papers in Springer.