

## Mr.KRISHNAMOORTHY A

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Department of Physics,  
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### Qualification

Degree	Branch	Institution / University	Year of Passing
M.TECH	REMOTE SENSING	Anna University	2007
M.TECH	SOLID STATE TECHNOLOGY	litm	2003
M.SC PHYSICS	PHYSICS	litm	2000
B.SC PHYSICS		Madras University	1997

Cleared NET / SET :	Details	Year of Passing
SET	3001376	12.01.2017

### Additional Qualification

Name of Course	Place of Study	Date	Duration
Quantum Mechanics-1 NPTEL Online Certificate	MHRD by Govt of India	Apr 2019	Jan-Apr 2019
Fiber Optics NPTEL Online Certificate	MHRD by Govt of India	Apr 2019	Jan-Apr 2019
Statistical Mechanics NPTEL Online Certificate	MHRD by Govt of India	Apr 2019	Jan-Apr 2019
Electromagnetic Theory	MHRD By Govt of india, SWAYAM	Apr 2020	Jan-Apr 2020
Introduction of Quantum physics and its applications	SWAYAM- ARPIT Course	Feb 2020	Nov-Feb 2020
Online short term course	Online, NIT-Jalandhar	24.08.20 to 28.08.20	5 days

### Work Experience

Name of Institution	Address of Institution	Designation	From	To
MOUNT ZION COLLEGE OF ENGINEERING AND TECHNOLOGY	LENA VILAKKU, PILIVALAM P.O, Thirumayam Tk. PUDUKKOTTAI Dt - 622507 TAMIL NADU, INDIA	ASSISTANT PROFESSOR	10-07-12	02-07-18
SHRI ANDAL ALAGAR COLLEGE OF ENGINEERING	SAACE, 6 GST ROAD, MAMANDUR - 603 111, KANCHIPURAM Dist, TAMIL NADU, INDIA.	ASSISTANT PROFESSOR	02-07-2007	05-03-2012
Bishop Heber College	Vayalur Rd, Puthur, Tiruchirappalli, Tamil Nadu 620017	Assistant Professor	09-07-2018	Till Date

## Table of Contents

1.	Conferences / workshops / Seminars Attended	49
2.	Research Papers Presented	2
3.	Publication in Journals	8
4.	Publication in Books	0
5.	Books Published / Edited	0
6.	Conferences / Workshops / Seminars Organised	2
7.	Research Projects	0
8.	Resource Person	0
9.	Consultancy	0
10.	Awards Recieved	0
11.	Patent	0
12.	Extension Activities Undertaken	0
13.	Professional Membership	0
14.	M.Phil. / Ph.D. Produced	0 / 0

1. International level Workshop on **"NPTEL workshop"** sponsored by IITM organized by IITM at Online during 22/06/2022 to 22/06/2022.
2. National level Workshop on **"Skill Development programme on " Various simulation tools used in research"** sponsored by Sathyabama Engg and Technology organized by Sathyabama Engg and Technology at Online during 28/02/2022 to 05/03/2022.
3. International level Workshop on **"Online workshop on high performance computing for astrophysics and astronomy"** sponsored by IITKG organized by IITKG at Online during 20/09/2021 to 23/09/2021.
4. International level Workshop on **"Workshop on Scanning Electron Microscopy: Technique and its applications"** sponsored by IITG organized by IITG at Online during 29/07/2021 to 30/07/2021.
5. National level -1 on **"FDP on Problem solving in Quantum Physics"** sponsored by BHC- Physics Department organized by BHC at BHC during 23/07/2021 to 24/07/2021.
6. National level Seminar on **"Visualizing Quantum Mechanics"** sponsored by EDUI ACADEMY organized by EDUI ACADEMY at online during 30/08/2020 to 30/08/2020.
7. International level Seminar on **"Biomolecular Dynamic and Kinetics"** sponsored by NIT-R organized by NIT-R at online during 23/08/2020 to 27/08/2020.
8. International level Seminar on **"Bilateral Indo-US webinar on COVID Biology"** sponsored by IISER-Kolkata organized by IISER-Kolkata at online during 16/08/2020 to 19/08/2020.
9. International level Seminar on **"Additive Manufacturing 3D printing, principles and practices"** sponsored by IIT-madras organized by IIT- Madras at online during 05/08/2020 to 05/08/2020.
10. National level Seminar on **"Recent Trends in solar power"** sponsored by Raj kumar goel institute of technology, ghaziabad organized by Raj kumar goel institute of technology, ghaziabad at online during 04/08/2020 to 04/08/2020.
11. National level Workshop on **"NPTEL E-Awareness workshop"** sponsored by VEDAVYASA INSTITUTE OF TECHNOLOGY organized by CMR Institute of Technology (CMRIT)VEDAVYASA INSTITUTE OF TECHNOLOGY, Bangalore at online workshop during 22/07/2020 to 22/07/2020.
12. National level Seminar on **"You and Your Research Endeavor"** sponsored by Saranathan College of Engineering organized by Saranathan College of Engineering at online during 21/07/2020 to 21/07/2020.
13. International level Seminar on **"Nanomaterials- A Multidisciplinary Approach"** sponsored by Saveetha Engineering College organized by Saveetha Engineering College at online during 20/07/2020 to 20/07/2020.
14. National level Seminar on **"Online Teaching Tools for faculty Members"** sponsored by SRM Institute of Science and Technology organized by SRM Institute of Science and Technology at online during 20/07/2020 to 20/07/2020.
15. National level Seminar on **"Quantum Computing"** sponsored by K.J.Somaiya Institute of Engineering - Mumbai organized by K.J.Somaiya Institute of Engineering - Mumbai at online during 16/07/2020 to 16/07/2020.
16. International level Seminar on **"Nanostructured metal oxide thin film for sensor technology"** sponsored by Saveetha Engineering College organized by Saveetha Engineering College at online during 16/07/2020 to 16/07/2020.
17. International level Seminar on **"Basic science behind MRI- contrast agents"** sponsored by Saranathan College of Engineering organized by Saranathan College of Engineering at online during 13/07/2020 to 13/07/2020.

18. National level Seminar on **"Biosensor an innovative approach in food quality evaluation"** sponsored by Saranathan College of Engineering organized by Saranathan College of Engineering at online during 12/07/2020 to 16/07/2020.
19. National level Workshop on **"Understanding OBS Studio & Streamyard for E-Content Creation and Live Streaming"** sponsored by Dr.M.G.R Educational and Research Institute organized by Dr.M.G.R Educational and Research Institute at online workshop during 10/07/2020 to 11/07/2020.
20. National level Seminar on **"National Webinar on Energy and Environment"** sponsored by Gujarat Science Academy organized by Gujarat Science Academy at online during 09/07/2020 to 10/07/2020.
21. State level Workshop on **"MTACS-2020"** sponsored by Sathyabhama Institute of science and technology organized by Sathyabhama Institute of science and technology at online workshop during 04/07/2020 to 10/07/2020.
22. National level Workshop on **"Advanced Materials"** sponsored by CMR organized by CMR Institute of Technology (CMRIT), Bangalore at online workshop during 26/06/2020 to 26/06/2020.
23. International level Seminar on **"INTERNATIONAL SEMINAR ON "EMERGING TECHNOLOGIES OF NANO SCIENCE, ENVIRONMENT AND ENERGY: COVID-19 RESTRICTION"** sponsored by K. C. College of Engineering & Management Studies & Research organized by K. C. College of Engineering & Management Studies & Research at online workshop during 23/06/2020 to 24/06/2020.
24. International level Workshop on **"SPARC INDO-US Workshop on Immunology"** sponsored by IIT Ropar & George Washington University jointly Presents. organized by IIT Ropar at online workshop during 12/06/2020 to 13/06/2020.
25. State level Seminar on **"Understanding of Nonlinear Dynamics In Natural and Engineering"** sponsored by PSNA College of engineering and Technology organized by PSNA College of engineering and Technology at online during 06/06/2020 to 06/06/2020.
26. -1 level Seminar on **"American College Chemistry Webinar Series-I"** sponsored by The American college, Madurai organized by The American college, Madurai at online during 15/05/2020 to 16/05/2020.
27. National level Workshop on **"Online Workshop on Research Methodology"** sponsored by PDPU organized by PDPU at online workshop during 05/05/2020 to 07/05/2020.
28. International level Conference on **"International Conference on Application of Basic Science ICABS-2019"** sponsored by ICABS organized by Bishop Beber College at TIRUCHIRAPPALI during 19/11/2019 to 21/11/2019.
29. International level Workshop on **"Science Through Inquiry & Research (STIR-19)"** sponsored by UBCHEA organized by Bishop Beber College at TIRUCHIRAPPALI during 17/10/2019 to 18/10/2019.
30. International level Conference on **"IWCSET"** sponsored by Ramco Institute of Technology, Rajapalayam organized by Ramco Institute of Technology, Rajapalayam at online during 26/06/2019 to 27/06/2019.
31. National level Seminar on **"Advancment of particle physicist"** sponsored by District Science centre-Gulbarga organized by District Science centre-Gulbarga at online during 21/06/2019 to 21/06/2019.
32. National level Seminar on **"Future of education"** sponsored by ICT Academy organized by ICT Academy at online during 18/06/2019 to 18/06/2019.
33. National level Seminar on **"Webinar on Quantum Mechanics and still going strong"** sponsored by Gujarat Science Academy organized by Gujarat Science Academy at online during 15/06/2019 to 17/06/2020.
34. State level Conference on **"Human Interference on Environment-2020"** sponsored by Govt of Karnataka, Department of Collegiate Education organized by Govt of Karnataka, Department of Collegiate Education at online during 05/06/2019 to 05/06/2019.

35. State level Seminar on **"Online teaching tools"** sponsored by Bishop Heber College, Trichy organized by Bishop Heber College at online during 30/05/2019 to 30/05/2019.
36. State level Seminar on **"Nonlinear optical behaviour of Nanomaterials"** sponsored by Lady Doak College, madurai organized by Lady Doak College, madurai at online during 25/05/2019 to 25/05/2019.
37. State level Seminar on **"Immunity boosters of COVID-19"** sponsored by Bishop Heber College, Trichy organized by Bishop Heber College, Trichy at online during 20/05/2019 to 20/05/2019.
38. State level Seminar on **"New generation Solar cells"** sponsored by Alagappa University, karikudi organized by Alagappa University, karikudi at online during 18/05/2019 to 18/05/2019.
39. International level Seminar on **"Cultivating a Positive Attitude for Professional Excellence"** sponsored by Colombo Plan Staff College, Philipines organized by Colombo Plan Staff College, Philipines at online during 13/05/2019 to 13/05/2019.
40. International level Workshop on **"Two days workshop on Atom Probe Tomography"** sponsored by NFAPT organized by IIT Madras at Chennai during 08/03/2019 to 09/03/2019.
41. International level Conference on **"ANEH-19"** sponsored by PRIVATE organized by BHC-DEPARTMENT OF PHYSICS at BHC during 04/02/2019 to 06/02/2019.
42. International level Conference on **"ICRTET 2018"** sponsored by MZCET organized by MZCET at MZCET during 23/04/2018 to 24/04/2018.
43. International level Workshop on **"SHORT TERM TRAINING PROGRAM ON ENGINEERING PHYSICS"** sponsored by MHRD organized by IITB at MZCET during 08/12/2015 to 18/12/2015.
44. National level Workshop on **"Seismic Resistant Structures and ArchitectureMan Vs Nature"** sponsored by MZCET organized by MZCET at MZCET during 23/02/2015 to 23/02/2015.
45. National level Seminar on **"Recent Trends in Architecture"** sponsored by MZCET organized by MZCET at PUDUKKOTTAI during 26/09/2014 to 26/09/2014.
46. National level Workshop on **"Fluid Mechanics"** sponsored by ISTE organized by MZCET at MZCET during 20/05/2014 to 30/05/2014.
47. International level Conference on **"International Conference on Recent trends in Engineering and Technology"** sponsored by MZCET organized by MZCET at MZCET during 13/05/2014 to 13/05/2014.
48. National level Workshop on **"Engineering Mechanics"** sponsored by ISTE organized by MZCET at MZCET during 20/11/2013 to 06/12/2013.
49. National level Workshop on **"Aakash for Education"** sponsored by ISTE organized by MZCET at MZCET during 10/11/2012 to 11/11/2012.

1. **"Shoreline Shape model for Chennai Coast Using Remote Sensing Data"** in the International conference on *ICRTET - 14* sponsored by PRIVATE, organized by MZCET at MZCET, PUDUKKOTTAI during 13/02/2019 to 13/02/2019.
2. **"The Effect of Yttrium Element on Microstructure and Mechanical Properties of Aluminium Alloy by Plasma Spark Sintered Process (SPSed)"** in the International conference on *ANEH - 19* sponsored by PRIVATE, organized by BHC- DEPARTMENT OF PHYSICS at BHC during 04/02/2019 to 06/02/2019.

## Publication in Journals

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1. **"Influence of Fe<sup>3+</sup> ions on the crystallographic, optical and electrochemical performance of ZnS quantum dots"** published in Indian Journal of Physics (PEER REVIEW) Vol. , Issue No. , August 2023 ISSN : 09731458.  
Impact factor , Scopus Index yes, h - index 38, Citation index yes
2. **"Effect of Sn<sup>2+</sup> ion synthesis, optical and structural properties of Zn<sub>1-x</sub>Sn<sub>x</sub> NPs by co-precipitation method"** published in AIP Conference Proceedings (PEER REVIEW) Vol. 8, Issue No. 1, August 2023 ISSN : 0094243X, 15517616.  
Impact factor , Scopus Index yes, h - index 80, Citation index yes
3. **"Band gap engineering on CdS quantum dots through dual doping of Zn<sup>2+</sup> and of Ni<sup>2+</sup> ions"** published in Journal of Physics Conference Series (PEER REVIEW) Vol. 6, Issue No. CC BY 3.0, July 2021 ISSN : 1742-6588.  
Impact factor , Scopus Index , h - index 85, Citation index
4. **"Role of Bi<sup>3+</sup> ions on structural, optical, photoluminescence and electrical performance of Cd<sub>0.9-x</sub>Zn<sub>0.1</sub>Bi<sub>x</sub>S QDs"** published in SN Applied Sciences (SELECT) Vol. 3, Issue No. , July 2021 ISSN : 25233971.  
Impact factor , Scopus Index , h - index 28, Citation index
5. **"Bandgap tailoring and photoluminescence performance of CdS quantum dots for white LED applications: influence of Ba<sup>2+</sup> and Zn<sup>2+</sup> ions"** published in Journal of Materials Science: Materials in Electronics (PEER REVIEW) Vol. 32(315), Issue No. 1573-482X, January 2021 ISSN : 0967-482X.  
Impact factor , Scopus Index yes, h - index 75, Citation index yes
6. **"Structural, morphological and photoluminescence characteristics of Cd<sub>0.9-x</sub>Zn<sub>0.1</sub>S quantum dots: Effect of Fe<sup>2+</sup> ion"** published in Optik (PEER REVIEW) Vol. 205, Issue No. , January 2020 ISSN : 0030-4026.  
Impact factor , Scopus Index 0030-4026, h - index 1, Citation index 1
7. **"Shoreline shape modeling for Chennai coast using remote sensing data"** published in International journal on engineering and technology (E-JOURNAL) Vol. , Issue No. , January 1900 ISSN : ---.
8. **"Reinforced concrete using magnetized water with steel fibers"** published in IJARBEST (E-JOURNAL) Vol. V-2, Issue No. , January 1900 ISSN : 2395-695X.

1. National level Conference Entitled "**National Level Technical Symposium**" at MZCET, sponsored by MZCET, during 28/09/2016 to 28/09/2016.



- # NATIONAL level E-Symposium on **"Positioning and repositioning of teacher in the light of national educational policy-2020"** Sponsored by School of engineering and technology, Bangalore, Organized by School of engineering and technology, Bangalore at online during 24/08/2020 - 24/08/2020.
- # NATIONAL level FDP on **"Emerging fields in thermal engineering"** Sponsored by Providence college of engineering, Organized by Providence college of engineering at online during 13/08/2020 - 15/08/2020.
- # NATIONAL level FDP on **"Recent trends in product development"** Sponsored by Jyothi Engineering college, Bangalore, Organized by Jyothi Engineering college, Bangalore at online during 10/08/2020 - 16/08/2020.
- # NATIONAL level FDP on **"Online FDP on spectroscopic techniques"** Sponsored by Jamal Mohamed College, Organized by Jamal Mohamed College at online during 03/08/2020 - 05/08/2020.
- # NATIONAL level FDP on **"Recent Research in Modern Physics"** Sponsored by Saranadhan college of engineering, Organized by Saranadhan college of engineering at online during 23/07/2020 - 23/07/2020.
- # NATIONAL level FDP on **"Writing and Publishing Quality Research papers in scholarly top tier journals"** Sponsored by RMD-Sinhgad school of engineering, Organized by RMD-Sinhgad school of engineering at online during 19/07/2020 - 20/07/2020.
- # INTERNATIONAL level SELECT on **"Importance of Mathematics in Science and Technology"** Sponsored by GMR Institute of Technology, Organized by GMR Institute of Technology at Online FDP during 25/06/2020 - 29/06/2020.
- # INTERNATIONAL level FDP on **"Importance of Mathematics in Science and Technology"** Sponsored by GMR Institute of Technology, Organized by GMR Institute of Technology at Online FDP during 25/06/2020 - 29/06/2020.
- # STATE level SELECT on **"RECENT AVENUES IN CHEMICAL SCIENCES"** Sponsored by Saranathan College of Engineering, Organized by Saranathan College of Engineering at Online FDP during 22/06/2020 - 28/06/2020.
- # NATIONAL level FDP on **"Molecules and Beyond the Molecules"** Sponsored by GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY, Organized by GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY at Online FDP during 15/06/2020 - 19/06/2020.
- # STATE level FDP on **"Faculty Development Programme on Recent Advances in Physics"** Sponsored by SRM-Science and Technology, Organized by SRM-Science and Technology at Online FDP during 03/06/2020 - 04/06/2020.
- # STATE level FDP on **"Academic process, measure and metrics for NAACE accreditation"** Sponsored by Srinivasan college of arts and science, Organized by Srinivasan college of arts and science at Online FDP during 25/05/2020 - 27/05/2020.
- # STATE level FDP on **"Research? Trends in NanoScience"** Sponsored by RMD engineering college, Organized by RMD engineering college at Online FDP during 13/05/2020 - 14/05/2020.
- # STATE level SELECT on **"Examinations in wake of COVID-19"** Sponsored by Patrician college of arts and science, Organized by Patrician college of arts and science at Online FDP during 08/05/2020 - 08/05/2020.
- # NATIONAL level FDP on **"Managing online classes and co-creating moocs"** Sponsored by MHRD-PMMNMTT, Organized by Ramanujam College university of delhi at online during 20/04/2020 - 06/05/2020.
- # NATIONAL level REFRESHER on **"ARPIT-course"** Sponsored by SWAYAM-MHRD GOVT, Organized by NAT-SWAYAM at online during 15/11/2019 - 16/02/2020.
- # NATIONAL level FDP on **"Faculty and Development Programme"** Sponsored by TEQIP II, Organized by Anna University BIT- TRICHY at TRICHY during 24/04/2015 - 30/04/2015.

