CURRICULUM VITAE

Dr. Arun S. Prasad MSc, PhD
Assistant Professor (Academic level 12) & Head
Post Graduate Department of Physics
T.K. Madhava Memorial College, Nangiarkulangara,
Alappuzha, Kerala, India- 690513
&
Research Guide
Faculty of Science in Physics
University of Kerala
Center at Sree Narayana College, Kollam, Kerala
&
Member, **Board of Studies (Pass) in Physics**
University of Kerala

Contact: +91-9349474954 (Cell)
E-mail: HYPERLINK "mailto:asp.physics@gmail.com"asp.physics@gmail.com
URL: HYPERLINK "http://drasp.blogspot.com/" http://drasp.blogspot.com/

ORCID: HYPERLINK "http://orcid.org/0000-0002-7267-814X?lang=en" \t "_blank" http://orcid.org/0000-0002-7267-814X?lang=en
Google Scholar citation: HYPERLINK "https://scholar.google.co.in/citations?hl=en&user=iUTEg6gAAAAJ" https://scholar.google.co.in/citations?hl=en&user=iUTEg6gAAAAJ



Born @ Kollam on 28th March, 1981

https://www.facebook.com/Dr.Aruns.Prasad.1

+91-9349474954

*Over **11 years** of experience in **teaching** as **Assistant Professor, 5 years** of experience as **Head** of PG department of Physics, Principal Investigator in **research projects** funded by UGC & KSCSTE, **Research Guide** in faculty of Science in Physics & **Member, Board of Studies (Pass) in Physics**, University of Kerala, Available as **Reviewer** of research papers in materials Science, **Editorial board member** in two international journals, Supervised 45 MSc projects and 10 BSc projects, Organized (convener) **2 National Seminar** (UGC & EMC Sponsored), **17** one day mentoring sessions (Govt. of Kerala sponsored), **3** staff annual general body meeting and **4** motivational visits, Edited **2 conference proceedings** books; Published **34** research papers in Refereed Journals and proceedings & another 51 in proceedings of various Conferences, seminars & Workshops; **Courses attended: 8** ; Delivered **10** invited lectures, chaired sessions in* 3 *conferences; Visited institute of national Importance: **26**; completed **33** peer reviews; Google scholar **citations: 299; h**-index**: 7, i10**-index**: 6; 5** Extension projects funded by Govt. of Kerala.*

Educational Background:

PhD Condensed Matter Physics (2010)
Department of Physics
University of Rajasthan, Jaipur, India 302 004

MSc Physics (2004)
Sree Narayana College, Kollam
University of Kerala, Thiruvananthapuram,India.

Professional Career

Teaching and Research

Present – 2019 July: **Assistant Professor (level 12) & Head**, PG Department of Physics, TKMM College, Nangiarkulangara, Alappuzha, Kerala (India)

2019 June – 2017 July: **Assistant Professor**, PG Department of Physics, TKMM College, Nangiarkulangara, Alappuzha, Kerala (India)

2017June – 2016 April: **Assistant Professor & Head in charge,** PG Department of Physics, Sree Narayana College, Punalur, Kollam, Kerala (India)

2016 March – 2012 October: **Assistant Professor,** PG Department of Physics, Sree Narayana College, Punalur, Kollam, Kerala (India)

2012 August – 2011 March: **Assistant Professor of Physics**, Arulmigu Meenakshi Amman College of Engineering, Vadamavandal (near Kanchipuram), Tamil Nadu (India)

2011 February – 2010 August: **Assistant Professor of Physics**, Jagannath University (Deemed), Chaksu, Jaipur, Rajasthan (India)

2010 July – 2010 May: **Lecturer in Physics**, SADTM Campus, Jaipur National University (Deemed), Jaipur, Rajasthan (India)

Research

2010 April – 2009 Nov.: **Research Fellow** in BRNS sponsored research program at National Institute of Technology, Calicut, Kerala, India

2009 Oct – 2006 Feb.: **Research Scholar** at Mossbauer and Magnetism lab., University of Rajasthan, Jaipur, Rajasthan (India) & **JRF** in BRNS sponsored research Program.

2006 January – 2005 September: **Research Fellow** in Condensed Matter Physics Lab @ Department of Physics, Sree Narayana College, Kollam

Technical

2005 August – 2004 August: **Trainee**, School of Instrumentation and Information Technology (SIIT), Kottayam, Kerala, India

Teaching Philosophy

Teaching physics at any level needs strategic planning before a defined aim could be achieved for the Mass. The information path should be crystal clear and the shortest possible to reach the final goal. It is important to show, how a number of basic facts build up a deeper understanding of the subject and thus knowledge. A teacher should be refined from a good teacher to a teacher always in need out of the ocean of experiences earned.

Being the democratic centre for higher education system, the curriculum in Colleges need immediate transition from the current status to fully research oriented. This is so important for our nation to develop in the present and future scenario. Research orientation in higher education system at Colleges can bring about more and more talents unconditionally to our productive sector which has been much required in order to shatter the culture of being a consumer for long, which in fact is the colonial residual. The system can be made research oriented only when there is a coincidence between the synthesis or creation and distribution of knowledge. This means Colleges need critical attention from authorities to be reformed to research focused as well and faculty members should widely involve in research activities. Thus, in the most modern scenario of teaching, a faculty member in a college should be an excellent distributor as well as creator of knowledge.

Teaching Interests

Solid state Physics, Spectroscopy, Electrodynamics, Advanced Electronics, Classical, Quantum & Statistical Mechanics, Engineering Physics, Optoelectronics and Nanophotonics, Microprocessors, ANSI C, CPP, Python , Open course in applied Physics etc.

Current Research Interests and Future Plans

Study of the overall physical, chemical and biogenic properties of metallic/oxide nanoparticles synthesized through controlled bio-precipitation using various plant extracts is of tremendous interest especially in the current scenario of green awareness in the syntheses of nanoparticles for bringing up eco-friendliness. In this method metallic precursors undergo biogenic reduction in presence of Green plant extracts wherein the hazardous reductants such as sodium borohydrides, lithium borohydrides etc., are slowly being replaced. The role of pH in determining the chemical composition as well as size of nanoparticles so formed and the effect of temperature in the aging of nanocrystals are coming under the main objective. Along with this, exploring the flora diversity of Kerala wherein there exists a treasure of variety of Ayurvedic medicinal plants for the use in the evolution of top-quality crystals of nanoparticles through green chemistry. The focus is intended to the evolution of 'Biogenic Smart Magnets' through fully green techniques for application in pharmaceutical drug targeting. The fundamental material characterization techniques such as XRD, FTIR, UV-Visible spectroscopy, TEM, SEM, AFM, Atomic Absorption spectroscopy, TGA/DTA, DSC, Positron life time annihilation spectroscopy etc., are being performed. The fabrication of single domain magnetic nanoparticles having high magnetocrystalline anisotropy is of another interest. Further the interests extend to the development of certain nanocrystalline metallic oxides, exhibiting near room temperature refrigeration characteristics by making use of magneto caloric effect (MCE), for potential application as eco-friendly solid state magnetic refrigerants. Also, synthesis of quantum dots is of another interest.

My future concerns in research are to explore ways and means to put into practical use the technology so developed to convert these nanostructured materials into biomedical field, highly advanced data storage applications of state-of-the-art hard disk drive systems, refrigeration technology and design and fabrications of quantum dot sensitized solar cells (QDSSCs). Since the nanoparticles could be highly tailor made and convert into processable material it carries immense potential to use in various magneto-optic devices also. All these aspects I would like to study in the event of me getting opportunities to undergo a collaborated research work with sufficient funding.

Research Guide ship

Recognized as research guide in the faculty of science in Physics at University of Kerala as per the **Order No. Ac. EVI(4)/19876/2016 dtd 03/12/2016** , with center at Research and PG department of Physics, SN College, Kollam

At present, Mr. Vibhu T.S. (**AcE VI(4)/117/PHY/15005/2017 dtd 16/08/2017**) and Mr. Pranav P. (**AcE VI(4)/718/PHY/17453/2018 dtd 14/02/2019**) have been registered as full time PhD candidate on the topics 3d transition spinel oxides and phytochemical mediated synthesis of perovskites respectively. Both of them are working at the research center at SN College, Kollam. Also, Mr. Praveen K.H., Assistant Professor, Department of Physics, S.N. College, Punalur and Smt. Shibi Krishnan (**AcE VI(4)/718/PHY/17962/2018 dtd 14/02/2019**) Assistant Professor, Department of Physics, St. stephens College, Pathanapuram have been registered as part-time candidates on the topics phytochemical mediated synthesis of nanocrystalline transition metal oxides and graphene oxides respectively.

Key areas

Spinel oxides, organic-inorganic hybrid perovskites, Green synthesis of metallic/oxide nanoparticles, Spin injection, Smart magnets, synergic High K materials

Skills

- Synthesis techniques such as Green synthesis, chemical co-precipitation technique, sol-gel technique, in-situ polymerization, electrochemical polymerization, plasma polymerization, spin coating, dip coating etc.

- Material Characterization techniques like XRD, VSM, Mössbauer spectroscopy, UV optical spectroscopy, AFM, FT-IR., Impedance Spectroscopy, cyclic voltametry, dc resistivity and Positron annihilation Spectroscopy.

- Radiation dose measurements techniques like GM-tube based environmental gamma dose survey meter, SSNTD based twin-cup radon thoron dosimeter, thermo-luminescent detector-based dosimeter, TL-card badge reader.

- Computer knowledge includes latest Microsoft MS office software, Adobe PageMaker, Origin, d-base, NORMOS fitting program, Win TLD (Specially designed software from Bhabha Atomic Research Centre, Mumbai), Map source (a GPS software), Turbo C, CPP, Python etc.

General Activities

1. Convener for conducting ***PhD pre-submission seminar of Mr. Vibhu T.S.,*** research Scholar, Department of Physics, S. N. College, Kollam.
2. Subject expert for evaluating the proposals for the award of ***KSCSTE POST-DOCTORAL FELLOWSHIP Scheme 2023***
3. Subject expert, ***GUEST TEACHER INTERVIEW @ S.N. College, Ala***, Chengannur, November 2023
4. Member, ***FYUGP Curriculum regulation Subcommittee 2023-24***, University of Kerala.
5. Subject expert, ***GUEST TEACHER INTERVIEW @ S.N. College, Ala***, Chengannur, June 2023
6. Member, ***FYUGP curriculum revise committee for foundational courses in science***, KSHEC 2023
7. Member, University examinations reform committee, AKPCTA 2023
8. Subject expert, ***GUEST TEACHER INTERVIEW @ S.N. College, Ala***, Chengannur, June 2022
9. Member, State Academic Committee, AKPCTA 2021-22, 22-23, 23-24
10. **Convener**, Academic Sub Committee, AKPCTA, Alappuzha 2021-2022, 22-23, 23-24
11. ***Presiding officer,*** Kerala State Assembly Election 2021 duty at Aryad Panchayath, Alappuzha
12. Member, **Board of Studies (Pass) in Physics**, University of Kerala.
13. ***Presiding officer,*** Local Body Election 2020 from Karuvatta , duty at SNDP LPS Karuvatta, Alappuzha
14. ***District Resource person*** for NEP 2020 under the banner of AKPCTA Alappuzha DC.
15. ***Course coordinator*** for PY1644 Digital electronics & Computer Science, Learn in Lock down with AKPCTA (march-April-May 2020)
16. ***Presiding officer,*** General Election to House of Parliament Constituency 2019 from Mavelikkara , duty at LPS punnakkunnathssery, champakkulam Panchayath, Alappuzha (23-05-2019).
17. ***Chaired sessions*** in ICMS 2017, jointly organized by IIUCNN & IUMSE, MG University, Kottayam.
18. ***Member***, MSc S2, pre valuation board 2017

19. ***Member,*** Editorial Board in Journal of Polymer Science and Engineering, Journal of Recent innovations in Applied Physics and Applications, Journal of Advanced Research in Applied Physics and Applications
20. ***Chaired three sessions*** *viz., Applications, Characterization and crystallization in* Second International Conference on Advanced Materials for Power Engineering **(ICAMPE-2016),** IIUCNN, M.G. University, Kottayam, Kerala ((11-13 Nov. 2016)
21. ***Member***, ***National Advisory Committee***, Second International Conference on Advanced Materials for Power Engineering **(ICAMPE-2016),** IIUCNN, M.G. University, Kottayam, Kerala
22. ***Presiding Officer***, General Election to Kerala State legislative Assembly 2016 from Chadayamangalam assembly constituency, duty at Govt. LPS Ugramkunnu, Velinalloor.
23. ***Chaired a session*** of nanocomposites in ICNM-2014, IIUCNN, MG University, Kottayam (2014)
24. ***Question paper setter*** for MSc physics, theory examinations
25. ***Presiding officer,*** General election to Local body Government 2015 from Aryankavu panchayathu, duty at kazhuthurutty village.
26. ***Reviewer*** of research papers in Materials Science journals(Springer, Elsevier), AIP conference proceedings on behalf of DAE-SSP (2012,2013,2014,2015)
27. ***Polling officer 1,*** General election to parliament from Kollam constituency, 2104, duty at Govt UPS Kalluvathukkal
28. Acted as ***Internal auditor,*** AMACE, Vadamvandal, Kanchipuram.
29. ***Honorary Research Fellow***, Mössbauer and Magnetism Lab, University of Rajasthan, Jaipur, India.
30. ***Joint secretary***, National Conference on Thermo physical Properties of materials (NCTP 2007) organized by Department of Physics, S.N. College, Kollam and Sponsored by Thermo physical Society of India.
31. Actively participated in National Seminar on Organic electronics at Sree Narayana College, Kollam, Kerala
32. Actively participated in Jyothirgamaya '05 Conference at Sree Narayana College, Kollam, Kerala
33. Actively involved and monitored four M.Sc project works and one M.Phil dissertation work during the period of my Ph. D.
34. Actively involved in the case-control study of low-level radiation area in the south west coast of Kerala and prepared a detailed report on it and submitted to BARC, Mumbai.
35. Acted as ***Resident Tutor***, E-Hostel, NIT Calicut, Kerala during Nov. 2009 to April 2010
36. ***Executive member***, Venpalakkara West Residence Association, Kollam Since 2002 to 2006

Responsibilities at present and previous colleges

Teaching

1. ***Tutor***, MSc Physics, 2023 admission batch, TKMM College
2. ***Tutor***, BSc Physics, 2020-2023 Batch (III DC alone), TKMM College
3. ***Tutor***, MSc Physics, 2020-2022 batch, TKMM College
4. ***Tutor***, BSc Physics, 2017-2020 Batch, TKMM College
5. ***Tutor***, MSc Physics, 2013-2015, I MSc 2015, I MSc 2016, SNC Punalur
6. ***Tutor,*** BSc Physics, 2015 admission, SNC Punalur
7. Exam Supervision, Internal and University
8. Internal Skilled assistant for University Practical Examination (both MSc & BSc)
9. University Paper valuation (both MSc & BSc)

10. Question paper setter

Research and Consultancy

1. Member, Editorial board (chair as HoD), KSCSTE sponsored National Conference on Optics and Photonics (**NCOP 2K22**) @ TKMM College, 2022
2. Member, Editorial board (chair as HoD), UGC sponsored National Seminar NSST 2020 @ TKMM College, Nangiarkulangara, 2020
3. Editor, Proceedings of the EMC sponsored seminar, MEEC 2019 @TKMM College, 2019
4. Attended PhD Course work valuation at University of Kerala, Karyavattom Campus, Thiruvananthapuram.
5. Attended doctoral committees for the selection of PhD candidates at University of Kerala, Karyavattom Campus, Thiruvananthapuram.
6. ***Research Guide***, Faculty of Science in Physics, University of Kerala. At present three candidates were registered for PhD work (two full time and one part time)
7. ***Member,*** Research Promotion Council, SNC Punalur
8. ***Principal Investigator,*** UGC Minor Project, SNC Punalur
9. ***Principal Investigator,*** KSCSTE student Project, SNC Punalur
10. ***Convener***, Organizing Committee, UGC Sponsored National Seminar on Nanomaterials for Energy Applications (NSNME), SNC Punalur
11. Guided BSc & MSc students in Projects, SNC Punalur
12. ***Editor***, Proceedings of NSNME, SNC Punalur
13. ***Member,*** Editorial board, Research Paradigm, SNC Punalur

Administrative and Outreach activities

1. ***Member***, Committee for conducting College Union election 2023, TKMM College
2. ***Member,*** Committee for conducting SN TRUSTS election 2023, TKMM College
3. ***Member***, NAAC Core committee, TKMM College (2022-23)
4. ***Co-ordinator***, Criterion. VI, SSR preparation, TKMM College (2022-23)
5. ***Head***, Post Graduate Department of Physics, TKMM College, Nangiarkulangara, (2019 July onward)

   In capacity as head of the PG department of Physics at TKMM College, Nangiarkulangara, efforts have been made to improve the results. Regular internal model tests have been implemented to conduct in all semester UG and PG classes immediately after the University exam registration is over. The teachers are given solid instructions to evaluate the answer scripts in stipulated time period and the performance of students in model tests are made to reflect directly in their CA marks. Even during covid time, the descriptive model tests were conducted through online live and papers were evaluated and graded through online itself by utilizing the platform of Google class room. The department achieved its ever-best fruit in 2023 UG results declaration in which our BSc student ***Ms. VISHNUPRIYA K.,*** *under my tutorship secured the Ist Rank in BSc Physics under affiliated Colleges of University of Kerala. Further, she joined in IIT Palakkad for pursuing Post graduation in Physics*

   An in-house curriculum project generation center has been set for the benefit of UG and PG students to fulfill their preparation needs for curriculum project works. Initiatives have been made to upgrade the existing project generation center to research center. A proposal submitted for research center has already been approved by academic council, University of Kerala.

6. ***Co-ordinator***, IQAC, TKMM College, Nangiarkulangara, (2018-19, 19-20, 20-21, 21-22, 22-23)

*In capacity as IQAC coordinator, streamlined the activities in each academic year by documenting the events paperless in blog. AQARs 2018-19, 2019-20 and 2020-21 have been successfully submitted to NAAC. AQAR 2021-2022 is on pipeline. The placement/promotion of teachers has been monitored by IQAC and the minutes of screening committee, verified PBAS forms are kept documented in IQAC office. Successfully completed the third cycle NAAC accreditation process of the college during my tenure as IQAC coordinator and the College secured the highest ever grade (**A grade with CGPA 3.02**) in its accreditation history.*



7. ***Co-ordinator***, UG and PG admissions, TKMM College, Nangiarkulangara (2018-19, 2019-20, 2020-2021, 2021-2022)
   In capacity as admission coordinator, the admission process in the college is streamlined for consecutive four academic years from 2018 to 2021 without any complains. Subject wise student's intake details in each year are prepared by admission committee. Finally, the nominal roll has been generating and hand over to office administration for further processing.

8. **General Coordinator**, DARSHAN '22 Multidisciplinary Seminar Series, Organized by IQAC and various other Departments (2022-23)

9. **General Coordinator**, DARSHAN '21 Multidisciplinary Seminar Series, Organized by IQAC and various other Departments (2021-22)

10. **General Coordinator**, E-DARSHAN Multidisciplinary Webinar Series, Organized by IQAC and various other Departments (2019-20)

11. ***Co-ordinator***, Website committee, TKMM College, Nangiarkulangara, (2018-19, 19-20)
    In capacity as website coordinator, redesigned the college website and maintained the time to time updating for two academic years

12. ***Member,*** College Council, TKMM College, Nangiarkulangara, July 2019 onwards
13. ***Member***, Enquiry Commission for Students violence at TKMM college, December 2017
14. ***Secretary,*** Teaching Staff Association, November (2017-18, 18-19 & 19-20 up to October 2019) at TKMM College.
    Conducted two staff tour programmes during the period

15. ***Member,*** Enquiry Commission for Students violence at TKMM college, October 2017
16. ***Member,*** Enquiry Commission for Students violence at TKMM college, July 2017
17. ***Head***, Post Graduate Department of Physics, SNC Punalur, April 2016 to June 2017.

18. ***Member,*** College Council, SNC Punalur April 2016 to June 2017
19. ***Member***, Organizing Committee, ZEST-2016: A Multidisciplinary seminar series in the 50 year pursuit of Sree Narayana College, Punalur
20. Member, organizing Committee, National Science Day Celebrations 2016, SNC Punalur
21. Member, organizing Committee, National Seminar on Intellectual Property Rights, SNC Punalur
22. ***Member***, organizing Committee, National Seminar on Ozone day Celebration, September 2016, SNC Punalur
23. ***Nodal Officer,*** All India Survey of Higher Education 2015-16, 16-17, SNC Punalur
24. ***Internal Auditor*** for PG Department of Mathematics, 2015-16, PG Department of Chemistry, 2016-17, SNC Punalur
25. ***Coordinator***, Walk With a Scholar Programme, funded by the office of New Initiatives in Higher Education, Directorate of Collegiate Education, Government of Kerala, TVM , 2014 to June 2017, SNC Punalur
26. ***Assistant Returning Officer***, College Union Election 2015-16, SNC Punalur
27. ***Member,*** Election committee for the conduct of Punalur union under SNDP yogam 2014-15, SNC Punalur
28. ***Secretary,*** Teaching Staff Association, ,April 2014 to June 2017, SNC Punalur
29. ***Member,*** PTA Executive Committee 2015-16, SNC Punalur
30. ***Member,*** Internal Quality Assurance Cell (IQAC) 2013 to June 2017, SNC Punalur
31. ***Member,*** Planning Forum 2015 to June 2017, SNC Punalur
32. ***Member,*** NAAC Core Committee 2014, SNC Punalur
33. ***Coordinator Website Committee,*** 2013--16, ***Member*** 16-17, SNC Punalur
34. ***Coordinator*** , Debate Club 2014-15, SNC Punalur
35. ***Member,*** Science Club, Environmental Club 2014-15, SNC Punalur
36. ***Member***, Hygiene Committee 2014-15, SNC Punalur
37. ***Member*****,** RUSA, SNC Punalur
38. ***Member,*** DST FIST Programme 2015, SNC Punalur

Outreach Speeches (selected)

1. Vote of Thanks @ the EXIT MEET of NAAC peer team, TKMM College 2023

2. Welcome speeches in DARSHAN ’21 Multidisciplinary Seminar Series, @ TKMMC (2021-22)

3. Vote of thanks in NSST 2020, organized by Department of Physics @ TKMM College, Nangiarkulangara & sponsored by UGC (2020)

4. Felicitation in Women’s Day Celebration 2019-20

5. Felicitation in Chemistry Association inauguration 2019-20

6. Felicitation in National Mathematics Day Celebration 2019-20

7. Felicitation in Mathematics Association inauguration 2019-20

8. Welcome in Physics Association inauguration 2019-20

9. Felicitation in Zoology Association inauguration 2019-20

10. Vote of Thanks in MEEC-2019 organized by Department of Physics @ TKMM College, Nangiarkulangara & sponsored by Energy Management Center Kerala under Department of Power, Government of Kerala (2019).

11. Felicitation in National Science Day celebrations organized by Department of Chemistry @ TKMM College, Nangiarkulangara (2019)

12. Felicitation in ASAP project presentation ceremony @ TKMM College, Nangiarkulangara (2019)

13. Felicitation in Anti-drug campaign 2018, organized by Excise department, Keralakaumudi, haripad and Vimukthi club, TKMM College, Nangiarkulangara.

14. Felicitation in Student union magazine release #Tag, TKMM College, Nangiarkulangara (2018).

15. Vote of Thanks in Sankar Day: 7 November 2018, Organised by PTA & Staff Association, TKMM College, Nangiarkulangara.

16. Inaugural address in KSCSTE sponsored World ozone day celebration: *Caring and Soothing* at Govt.HSS, Veeyapuram, Alappuzha 17th Sept. 2017.

17. Felicitation in the inaugural session of World Environment Day Celebrations organized by Department of Botany and Zoology, Sree Narayana College Punalur & sponsored by KSCSTE, Govt. of Kerala, on 14 June 2017.

18. Felicitation in the inaugural session of National Human Right Commission supported one day National Training programme on Human Rights, organized by Sree Narayana College Punalur on 22 March 2017.

19. Felicitation in Merit Day 2017, organized by PTA and the Conclusion of ZEST 2017 organised by Students, Staff & PTA, Sree Narayana College, Punalur

20. Felicitation in the inaugural session of KSCSTE sponsored National Science Day Celebrations, Organized by department of Zoology and Botany Sree Narayana College, Punalur on 28 February 2017.

21. Felicitation in the inaugural session of KSCSTE sponsored National Seminar on Intellectual Property Rights, Organized by department of Zoology and Botany Sree Narayana College, Punalur.

22. Felicitation in Sankar Day: 7 November 2016, Organised by PTA, SN College, Punalur

23. Felicitation in the inaugural session of Golden Jubilee Celebrations of Sree Narayana College, Punalur; *inaugurated by Chief Minister Sri. Pinarayi Vijayan & presided over by Sri. Vellappally Natesan, Manager, SN Trust Colleges*

24. Vote of Thanks in NSNME 2016 organized by Department of Physics, SN College, Punalur & sponsored by UGC

25. Felicitation in the inaugural session of UGC sponsored National Seminar on Chemical Applications of Spectroscopic Techniques (NSCAST), Organized by PG Department of Chemistry, Sree Narayana College, Punalur, 2014.

26. Vote of Thanks in the inaugural session of MSc Physics Programme @ S. N. College, Punalur (2013)

Membership in Professional Bodies

1. ***Member*****,** RAMAN INTERNATIONAL OPTRONICS SOCIETY (RIOS)(ID: RIOS/0360/2022 dated 13-11-2022
2. ***Member*****,** Board of Studies (Pass) in Physics, University of Kerala
3. ***Member,*** Editorial board, Journal of Polymer Science and Engineering, Enpress publishers.
4. ***Member,*** Editorial board Journal of International Journal of Recent innovations in Applied Physics and Applications
5. ***Member*****,** Editorial Board, Journal of Advanced Research in Applied Physics and Applications
6. ***Senior Member*** (Member No: 80349826), International Association of Computer Science and Information Technology (IACSIT)
7. ***Life Member*** (Member No: APTLM 1095), Academy of Physics Teachers (APT), Kerala (http://tinyurl.com/aptkeralalm)
8. ***Member*****,** The International Nanoscience Community
9. ***Member & External Examiner***, pre-board of theory and practical examinations, MSc Physics (All Semesters), University of Kerala, Thiruvananthapuram
10. ***Member & External Examiner***, pre-board of theory and practical examinations, CBCSS FDP in Physics (All Semesters), University of Kerala, Thiruvananthapuram
11. ***Member & Examiner***, pre-board of theory and practical examinations, MSc Physics, Fatima Mata National College (Autonomous)
12. ***Branch member*****,** All Kerala Private College Teachers Association (AKPCTA), 2012 to June 2017 at SNC Punalur & from July 2017 to Present at TKMM College. From April 2018 to 2022 ***Branch Secretary.***

Visits to Institutes of National Importance

1. Mysore Palace under Archeological Department, 2020
2. Indian Naval Academy, Ezhimala, Kannur as part of WWS Motivation visit, April 2017
3. Regional Agriculture Research Station (RARS), Pilicode, Kasarghodu in connection to Motivation visit, April 2017.
4. National Institute of Interdisciplinary Science and Technology (NIIST), CSIR laboratory, Thiruvananthapuram (2016), in connection with lab visit as part of refresher course in materials science conducted at UGC-HRDC, karyavattam, University of Kerala from 29th Nov to 19th Dec. 2016.
5. International and Interuniversity Center for Nanoscience and Nanotechnology (IIUCNN), Mahatma Gandhi University, Kottayam, Kerala, during November 2016 for attending ICAMPE 2016 and December 2014 for attending ICNM-2014
6. Techno park, Thiruvananthapuram, 2015 in connection with the Motivational Visit for second year UG students of Walk With a Scholar Programme
7. Central Plantations Crops Research Institute (CPCRI), Krishnapuram, Kayankulam, 2015 in connection with the Motivational Visit for second year UG students of Walk With a Scholar Programme.
8. Kerala State Science and Technology Museum, Thiruvananthapuram, 2015 in connection with the Motivational Visit for second year UG students of Walk With a Scholar Programme.

9. Regional Office of the Textiles Committee, Government of India at Kannur, Kerala, 2015
10. Amrita University, Amritapuri, Karunagappally as part of Virtual Lab seminars and workshops during 2015
11. Tropical Botanic Garden and Research Institute (TBGRI) Palode, Trivandrum 2014
12. Head quarters of National Assessment and Accreditation Council (NAAC), Bangalore for submitting Self Study Report (SSR) on behalf of Sree Narayana College, Punalur, 2014
13. Bennari Amman College of Engineering (Autonomous), Sathyamanglam, Erode (2016)
14. Veltech University, Avadi Chennai (2011)
15. MANIPAL University, Uduppi- for attending 55th DAE-SSP during Dec. 2010
16. BANASTHALI Women' University, Jaipur, Rajasthan during July 2010
17. TIFR, Mumbai- for delivering an invited seminar talk on Rare earth substituted low T_c superparamagnetic nano-ferrites- on 13th April 2010
18. Kerala Forest Research Institute (KFRI), Peechi, Thrichur, during 2010.
19. IUAC, New Delhi- for beam time- during March 2010; for workshop- during Sept. 2006
20. IIT Bombay- for attending MR08- during May 2008; lab visits- during Feb. 2006
21. UGC DAE CSR Kolkotta- for positron annihilation life time measurement- during March 2007
22. UGC DAE CSR Indore- for annual report presentation on behalf of UE & P lab NIT, Calicut- during Feb. 2010; for Mössbauer measurements- during Nov.- Dec. 2007
23. Cochin University for Science and Technology, 2006,2007,2008 @ the instrumentation devision.
24. Saha Institute of Nuclear Physics, Kolkotta- for attending International conference on structure & dynamics: from macro to micro- during December 2006
25. BARC Mumbai- for training as part of a research fellowship- during Feb. 2006; Sept. 2006; June 2008
26. National Centre for Earth Science Studies, Thiruvananthapuram, during 2006
27. IISc, Bangalore, during Feb. 2005

Awards, Honours and Fellowships:

1. Honor from Cheppad SNDP union for serving as IQAC coordinator of TKMM College, Nangiarkulangara during third cycle NAAC accreditation process. The College secured the highest ever grade (A grade, CGPA 3.03) in its last three cycle of accreditation history.



2. Member, Board of Studies (Pass) in Physics, University of Kerala.
3. Editorial ship in 3 renowned journals

4. Research Guide ship by University of Kerala, Thiruvananthapuram (2016).
5. Reviewer ship in renowned journals
6. Most Helping Teacher Award by MSc Students, 2013-2015 Batch, Department of Physics, Sree Narayana College, Punalur.
7. Ph.D. in Condensed Matter Physics (2010) by University of Rajasthan, Jaipur, India
8. Junior Research Fellowship through project (2009) by BRNS, Mumbai, India
9. Junior Research Fellowship through project (2006) by BRNS, Mumbai, India

Research Projects

1. Development of High anisotropy spinel nanoferrites : Potential candidate for high density Magnetic Storage Media (Sanctioned by UGC, Amount Rs. 1.6 lakhs, submitted final report)
2. Fungi – Mediated Synthesis of Silver Nanoparticles (Sanctioned by 59th student project committee of KSCSTE, Amount Rs. 10,000/-, completed)

Pre publication Reviews

1. 2022: Results in Optics (Elsevier)
2. 2020: Journal of Nanoparticle Research (Springer)
3. 2020: Journal of Applied Polymer Science (Wiley)
4. 2020: Advanced Engineering materials (Wiley)
5. 2019: Advances in Natural Sciences: Nanoscience and Nanotechnology (VAST (VN) & IOP (UK))
6. 2019: SN Applied Sciences (springer)
7. 2019: Biosciences, Biotechnology Research Asia
8. 2019: Global conference on Polymer and Composite materials (PCM 2019, CPCM conference)
9. 2019-05-27: Modern Physics Letters B (World Scientific Publishing)
10. 2019-04-04: Modern Physics Letters B (World Scientific Publishing)
11. 2018-05-07: Journal of Nanomaterials (Hindawi)
12. 2017-11-11: International Journal of Nanoscience (World Scientific)
13. 2017-05-30: Green Chemistry Letters and Reviews (Taylor & Francis)
14. 2017-04-12: Journal of Nanomaterials (Hindawi)
15. 2014-09-28: Materials Science and Engineering B (Elsevier)
16. 2014-08-14: Journal of Materials Science (Springer)
17. 2013-09-12: DAE Solid State Physics Symposium (AIP Conference series)
18. 2013-09-12: DAE Solid State Physics Symposium (AIP Conference series)
19. 2013-09-12: DAE Solid State Physics Symposium (AIP Conference series)
20. 2013-09-12: DAE Solid State Physics Symposium (AIP Conference series)
21. 2013-09-11: DAE Solid State Physics Symposium (AIP Conference series)
22. 2013-09-11: DAE Solid State Physics Symposium (AIP Conference series)
23. 2013-09-11:DAE Solid State Physics Symposium (AIP Conference series)
24. 2013-09-10: DAE Solid State Physics Symposium (AIP Conference series)
25. 2013-09-10:DAE Solid State Physics Symposium (AIP Conference series)
26. 2013-09-10:DAE Solid State Physics Symposium (AIP Conference series)
27. 2013-09-10: DAE Solid State Physics Symposium (AIP Conference series)
28. 2012-09-13: DAE Solid State Physics Symposium (AIP Conference series)
29. 2012-09-13:DAE Solid State Physics Symposium (AIP Conference series)
30. 2012-09-13: DAE Solid State Physics Symposium (AIP Conference series)
31. 2012-09-13: DAE Solid State Physics Symposium (AIP Conference series)

32. 2012-09-13: DAE Solid State Physics Symposium (AIP Conference series)
33. 2012-09-12: Journal of Materials Science (Springer)
34. 2012-07-17: Journal of Materials Science (Springer)

For viewing more reviews . Please visit at:
https://publons.com/researcher/1351575/arun-s-prasad/

MSc Project Supervision

1. A comparative study of biosynthesized cobalt ferrite and copper doped cobalt ferrite nanoparticles
   (ASWIN S., Candidate code: 63020133004, SNC Punalur, 2022)

2. A comparative study of biosynthesized copper ferrite and nickel doped cobalt ferrite nanoparticles
   (SIKHA RAJ, Candidate code: 63020133014, SNC Punalur, 2022)

3. A comparative study of biosynthesized cobalt ferrite and zinc doped cobalt ferrite nanoparticles
   (ATHIRA VINAYAN, Candidate code: 63020133005, SNC Punalur, 2022)

4. A comparative study of biosynthesized cobalt ferrite and nickel doped cobalt ferrite nanoparticles
   (DEEPIKA D.K., Candidate code: 63020133006, SNC Punalur, 2022)

5. Synthesis, characterization and optical studies of $CeMnO_3$ nanoparticles using sucrose mediated combustion technique
   (AISWARYA G, Candidate code: 63020143003, TKMM College, 2022)

6. Structural and optical investigations on LaMnO3 synthesized through solution combustion technique using sucrose
   (MEGHA G, Candidate code: 63020143008, TKMM College, 2022)

7. Sucrose mediated synthesis and structural analysis of $LaCrO_3$ perovskite oxide Nanoparticle
   (Sai Kiran, Candidate code: AM.AR.15PHY17057, AMRITA VISHWA VIDYAPEETHAM, 2022)

8. Synthesis, characterization and optical studies of $LaFeO_3$ nanoparticles using ascorbic acid mediated solution combustion method
   (Meenu M., Candidate code: AM. AR. 15PHY17040, AMRITA VISHWA VIDYAPEETHAM, 2022)

9. Coffee bean mediated green chemical synthesis and spectral investigations on copper ferrite nanomaterials
   (Aiswarya Lekshmi S. Nair, Candidate code: AM.AR.15PHY16003, AMRITA VISHWA VIDYAPEETHAM, 2021)

10. Synthesis, characterization and optical studies of $ZnSnO_3$ nanoparticles using rooibos tea natural extracts
    (Priyanka P, Candidate code: 63019128012, SNC Ala (Chengannur) 2021)

11. Rooibos tea mediated synthesis and structural analysis of $Cu_{0.3}Zn_{0.7}SnO_3$

(Akhila Anil, Candidate code: 63019128001, SNC Ala (Chengannur) 2021)

12. Synthesis Characterization and optical studies of CuSnO3 nanoparticles using Rooibos tea natural extracts
(Amala Raj, Candidate code: 63019143004, TKMM College, 2021)

13. Rooibos tea mediated synthesis and structural analysis of $Cu_{0.7}Zn_{0.3}SnO_3$ nanoparticles
(Shahana H, Candidate code: 63019143011, TKMM College, 2021)

14. Rooibos tea assisted synthesis and characterization of $CuSn_{0.5}Zr_{0.5}O_3$ nanoparticles
(Noorjahan A, Candidate code: 63019143010, TKMM College, 2021)

15. –D-glucose assisted synthesis and optical characterization of Fe_2O_3 nanoparticles
(Adithya Krishna S., Candidate code: 63019133002, SNC Punalur 2021)

16. Structural and optical investigations on –D-glucose aided synthesized CoO nanoparticles
(Sajitha S., Candidate code: 63019133013, SNC Punalur 2021)

17. Lactose monohydrate mediated synthesis and optical analysis of NiO nanoparticles
(Anjali R. S., Candidate code: 63019133003, SNC Punalur 2021)

18. Crystallographic and optical characterization of NiO nanoparticles synthesized through D-glucose assisted chemical technique
(Deepika Raj, Candidate code: 63019133006, SNC Punalur 2021)

19. Structural and optical emission studies on nanocrystalline CoO synthesized through lactose monohydrate mediation
(Sayoojya S. D., Candidate code:63019133014, SNC Punalur 2021)

20. Lactose monohydrate mediated synthesis, crystallographic structure and optical studies on nanocrystalline Fe_2O_3
(Bhavyasena J. S., Candidate code: 63019133005, SNC Punalur 2021)

21. Superparamagnetism: A novel class of magnetism
(Arsha Raj B, Candidate code: 63018143001, TKMM College, 2020)

22. Self-controlled magnetic hyperthermia: A novel therapeutic approach for the treatment of cancer
(Arya Sam, Candidate code: 63018143009, TKMM College, 2020)

23. Crystallographic study on Ce_2O_3 nanoparticles synthesized through dextrose mediation
(Arya, Candidate code: 63018133 , SN College, Punalur, 2020)

24. Dextrose mediated synthesis of nickel oxide nanoparticles
(Vidya Babu , Candidate code: 63018133015, SN College, Punalur, 2020)

25. Sucrose ($C_{12}H_{22}O_{11}$) mediated synthesis of CoO nanoparticles
(Varsha , Candidate code: 63018133 , SN College, Punalur, 2020)

26. Synthesis, crystallographic structure and optical investigations on Fe_2O_3 nanoparticles
(Akhila A. S. Candidate code: 63017133004, SNC Punalur 2019)

27. Hesperidin mediated synthesis and optical emission analysis on nanocrystalline CuO
(Gowrikrshana A. J. Candidate code: 63017133015, SNC Punalur 2019)

28. Crystallographic structure and optical emission study on nanocrystalline Cr_2O_3 synthesized through hesperidin mediation
(Sreelekshmi U. B., Candidate code: 63017133013, SNC Punalur 2019)

29. Optical emission and crystallographic structure analysis of chrysin mediated biosynthesized ZnO nanoparticles
(Varsha J. R., Candidate code: 63017133018, SNC Punalur 2019)

30. Synthesis and characterization of nanocrystalline $CuFe_2O_4$
(Ajeesha S., Candidate Code: 630171430012,TKMMC 2019)

31. Synthesis and optical analysis of nanocrystalline $Ni_{0.5}Cu_{0.5}Fe_2O_4$
(Athira T. Mohan, Candidate Code: 63017143001,TKMMC 2019)

32. Lactose monohydrate mediated synthesis and characterization of nanocrystalline $Ni_{0.2}Ca_{0.8}Fe_2O_4$
(Keerthy M.,Candidate Code: 63017143006,TKMMC 2019)

33. Crystallographic structure and optical analysis of nanocrystalline $Ni_{0.6}Cu_{0.4}Fe_2O_4$
(Keerthy Roy, Candidate Code: 63017143007, TKMMC 2019)

34. Synthesis and optical investigations on nanocrystalline $NiFe_2O_4$
(Nileena S. Rose, $NiFe_2O_4$,Candidate Code: 63017143001,TKMMC 2019)

35. Green synthesis and characterization of nanocrystalline $CuFe_2O_4$ spinels
(Vishnupriya P. R., Candidate Code: 63016143013,TKMMC 2018)

36. Hesperidin Mediated Synthesis and Estimation of Band Gap for Nano Crystalline $Ni_{0.5}Cu_{0.5}O$ (POURNAMI M., Candidate code: 63016143008, TKMMC 2018)

37. Hesperidin ($C_{29}H_{34}O_{15}$) mediated synthesis and spectroscopic investigation of Nanocrystalline $NiFe_2O_4$ (SREELEKSHMI A., Candidate code: 63016143009, TKMMC 2018)

38. Phytochemical mediated synthesis and characterization of Nanocrystalline $Ni_{0.2}Cu_{0.8}O$ (AKASH A. K., Candidate code: 63016143002, TKMMC 2018)

39. Phytochemical mediated sol-gel synthesis,characterization and estimation of band gap for $\boldsymbol{Ni_{0.8}Cu_{0.2}O}$ nanoparticles
(AMALABHAS.S, Candidate code: 63016143003, TKMMC 2018)

40. Yeast Mediated Synthesis of Silver Based Nanoparticles (AKHILA PRABHAKARAN , Candidate code:63015133001, SNC Punalur, 2017)

41. Synthesis of Silver Based Nanoparticle using Bread Mold Extract (ANANDHU S SATHEESH, Candidate code:63015133002, SNC Punalur, 2017)

42. Raman Spectroscopic and Morphological Analysis of Iron Oxide Nanoparticles (APSARA B S, Candidate code: 63015133003, SNC Punalur, 2017)

43. Synthesis, Characterization and Spectroscopic Investigation of Iron Oxide Nanoparticles (ASWANY V S, Candidate code: 63015133004, SNC Punalur, 2017)
44. Spectroscopic Analysis of Copper Oxide Nanoparticles Synthesized using Tea Leaf Extract (ATHIRA PRASAD, Candidate code: 63015133007, SNC Punalur, 2017)
45. Iron Oxide Nanoparticles Synthesized through the Biogenic Reduction of Ferrous Sulphate Heptahydrate using Leaf Extract of Clitoria Ternatea (CIBIN BABY, Candidate code: 63015133008, SNC Punalur, 2017)
46. Green Synthesis of Iron Oxide Nanoparticles using Curry Leaf Extract (DEEPAK T, Candidate code: 63015133009, SNC Punalur, 2017)
47. Green Synthesis of Copper Oxide Nanoparticles using the Leaf Extract of Phyllanthus Niruri (Keezharnelli) (KANCHANA A, Candidate code: 63015133010, SNC Punalur, 2017)
48. Coffee Bean Mediated Synthesis of ZnO Nanoparticles (RAJESWARY M, Candidate code: 63015133012, SNC Punalur, 2017)
49. Structural , Morphological and Raman Spectroscopic Analysis of Copper Oxide Nanoparticles (RESHMA R, Candidate code: 63015133013, SNC Punalur, 2017)
50. Characteristic Analysis of Copper Oxide Nanoparticles Prepared using Leaf Extract of Kayyonni (SAJITHA M, Candidate code: 63015133014, SNC Punalur, 2017)
51. Plant mediated synthesis of copper oxide nanoparticles using the leaf extract of *Leucas aspera (*AKHIL RAJ M V, candidate code: 63014133001, SNC Punalur 2016)
52. Impedance analysis of $ZnCr_xFe_{2-x}O_4$ (Anju S., Candidate code: 63014133002, SNC Punalur, 2016)
53. Green synthesis and thermal analysis of manganese based nanoparticles using the leaf extract of *Adhatoda vasica Nees* (Aswathy P. M. Candidate Code: 63014133005, SNC Punalur, 2016)
54. Plant mediated Sol-gel synthesis of iron oxide nanoparticles using the leaf extract of *Adhatoda vasica Nees* (Athira Vijayan, Candidate Code: 63014133007, SNC Punalur, 2016)
55. Spectroscopic investigation of iron oxide nanoparticle synthesized using the leaf extract of *Leucas aspera* (Binsi S. L., Candidate Code: 63014133008, SNC Punalur, 2016)
56. Impedance analysis of $Ni_xCa_{1-x}Fe_2O_4$ (Fousiya, Candidate Code: 63014133010, SNC Punalur, 2016)
57. Calibration of microprocessor based UV- Visible spectrophotometer & analysis of spectrum obtained for various compounds (Sarath Mon M. S., Candidate Code: 63014133014, SNC Punalur, 2016)
58. Calibration of variable angle laser Ellipsometer & estimation of thickness of SiO_2 thin films coated on N-SF-66 (Shaiju B, Candidate Code: 63014133015, SNC Punalur, 2016)
59. Analysis of UV-Visible spectrum obtained for various bio-synthesized samples using microprocessor based spectrophotometer (Vipin R, Candidate Code: 63014133016, SNC Punalur, 2016)

60. Analysis of UV-Visible Spectrum and Estimation of Band Gap Energy for Bio-synthesized Semiconducting Nanoparticles (Archana S. V., Candidate Code: 63014140003, St. Stephen's College, Pathanapuram, 2016)
61. Impedance analysis of $Mn_xCu_{1-x}Fe_2O_4$ (Arya M., Candidate Code: 63014140 , St. Stephen's College, Pathanapuram, 2016)
62. Comparative Study of Green Reduction in Metal Salt Precursors Using Leaf Extracts of Local Flora at Punalur (Jeena N., Candidate Code: 63013133007, SNC Punalur, 2015)
63. Green Reduction and Spectroscopic Investigation of Copper Sulphate Pentahydrate using the Leaf Extract of Kayyonni (*Eclipta alba*) (Athira Rajendran, Candidate Code: 63013133, SNC Punalur 2015)
64. Magnetic And X-Ray Diffraction Analysis Of Nickel Chromium Ferrites Synthesized Using Sol-Gel Technique (Neethu Joy, Candidate Code: 63013133009, SNC Punalur 2015)
65. Green Reduction and Thermogravimetric Analysis of Iron (II) Sulphate Heptahydrate Reduction using the Leaf Extract of Kiriyath (Andrographis paniculata) (Pooja Dileep S., Candidate Code: 63013133010, SNC Punalur 2015)

BSc Project Supervision

1. Design and fabrication of Phase shift oscillator (2023)
2. Applications of C++ programme in Physics experiments(2022)
3. A comparative study of surface tension of edible oils
   (Areyendhu Shalu 23018143004, Chandana 23018143005, Vishnu K. Kumar 23018143015, Anjana L 23018143021, Bhavana B 23018143026, Naveen S 23018143036.)

4. Solutions to the C++ programs in newly revised CBCSS Physics syllabus-2018
   (Praveen P: 23017143011, Aiswarya Gopu: 23017143016, Anjali Rajappan: 23017143018, Midhun M.: 23017143027, Yeduveni K.Y.; 23017143032, Sooraj R: 23017143039)

5. A Comparative Study of the Cleansing Ability of Natural and Artificial Detergents Using Surface Tension Measurements
   (Akhil Thampi: 23016143021, Ananthu T: 23016143005, Jinu S :23016143027 and Krishna Prabhath:23016143012), TKMMC 2019

6. 4 students in the topic, impact of soap solution on surface tension of water, 2018

7. LHC data analysis
   (Athira B. Kumar: 23014133006, Indu J. S.: 23014133008, Prasanth P: 23014133010, Amal Raj: 23014133017, Raseena Mol R: 23014133029)

8. A study of Food Adulteration by measuring refractive indices of various commercially available coconut oils
   (Aneesh V. S.: 23014133004, Rajesh R: 23014133011, Sruthy S: 23014133014, Anju S. Ranjan:23014133019, Surabhi S: 23014133030), SNC Punalur 2017

9. **4** students in the topic, *measurement of hysteresis loss using CRO* in 2016.

10. Influence of Nanotechnology in the Development of High T_c Superconductors (Ganga Krishnan:23012133016, Akhila.S: 23012133005, Reshma R: 23012133026, Jithu Lekshmi.B :23012133017, Vineetha .R : 23012133030), SNC Punalur 2015

11. In 2014**, 3** students were guided in a project on *electronic alarm modeling*

12. Fuel Cell and super capacitors: An alternative renewable energy Source (Anjali G. R: 23010133016; Rani Rajan: 23010133028, Mekha Devi M: 23010133025), SNC Punalur 2013.

13. In 2013, **2** students were guided on the topic *a review of high density data storage media*

Career Advancement Courses attended

1. Two weeks Refresher course in materials Science, organized by UGC-HRDC
Calicut University, 17 June 2022 to 30 June 2022.

2. One week online FDP on Instrumental methods of analysis under MHRD Sponsored PMMMNMTT scheme organized by jointly organized by Guru Angad Dev Teaching Learning Center, SGTB Khalsa College, Delhi University and Bishop Moore College, Mavelikkara, 7 to 13 October 2020.

3. One week National online FDP on Research ethics and characterization techniques in materials Science jointly organized by Guru Angad Dev Teaching Learning Center, SGTB Khalsa College, Delhi University and Bishop Moore College, Mavelikkara under PMMMNMTT scheme of MHRD, 9-15 September 2020.

4. KSHEC sponsored one week E-Summer school on Advanced functional materials for energy harvesting, storage and biomedical applications conducted by Bishop Moore College, Mavelikkara, 13 to 19 May 2020.

5. Two weeks Online FDP in Nanocomposites and nanomaterials and its Characterization, Vimal jyothi Engineering College, Kannur, 8 to 20 June 2020

6. Short Term course on Research Methodology, conducted by College Development Council, MG University, Kottayam (20-01-2020 to 24-01-2020)

7. Refresher course, UGC-HRDC Karyavattam Campus, University of Kerala (29-11-2016 to 19-12-2016)

8. Orientation Programme, UGC-HRDC Kariyavattam Campus, University of Kerala (03-09-2015 to 30-09-2015)

Extension Projects

1. Motivational Visit for students in second year Walk With a Scholar programme, Plan 2016-‘17 to Regional Agriculture Research Station (RARS), Pilicode, Indian Naval Academy, Ezhimala and Bakel Fort for second year UG students of Walk

with a Scholar programme, S.N. College, Punalur scheduled from 17/04/2016 to 20/04/2016(Rs. 80,000/-, completed)

2. Walk With a Scholar Programme, Plan Scheme 2016-2017, sponsored and supported by Office of the New Initiatives, Kerala Science and Technology Museum Campus, PMG, Thiruvananthapuram (Rs. 2,42,000/-, Completed)

3. Motivational Visit for students in second year Walk With a Scholar programme, Plan 2015-'16 sponsored and supported by Office of the New Initiatives, Kerala Science and Technology Museum Campus, PMG, Thiruvananthapuram. Conducted three visits respectively at Kerala Science and Technology Museum, TVM, CPCRI, Kayankulam, Techno Park TVM (Rs. 60,000/-, Completed)

4. Walk With a Scholar Programme, Plan Scheme 2015-2016, sponsored and supported by Office of the New Initiatives, Kerala Science and Technology Museum Campus, PMG, Thiruvananthapuram. Coordinated internal and external mentoring sessions for sixty top students of first and second year undergraduate students from various departments (Rs. 1,52,800/-, Completed)

5. Walk With a Scholar Programme, Plan Scheme 2014-2015, sponsored and supported by Office of the New Initiatives, Kerala Science and Technology Museum Campus, PMG, Thiruvananthapuram. Coordinated internal and external mentoring sessions for thirty top students of first year undergraduate students from various departments (Rs. 77,400/-, Completed)

Books & Proceedings

1. Edited the ***Proceedings of EMC Sponsored Seminar on Materials for Energy Efficiency and Conservation (MEEC* 2019)** published by PG Department of Physics, TKMM College , Nangiarkulangara in association with Energy Management Center, Department of Power, Government of Kerala.

2. Edited the ***Proceedings of UGC Sponsored National Seminar on Nanomaterials for Energy Applications*** (2016) published by PG Department of Physics, S.N. College, Punalur

3. 'Thermo physical properties of materials and devices', volume **1004**, Published by ***American Institute of Physics***, (2008) Ed. by P. Predeep, S. Prasanth and **A. S. Prasad**

PhD Thesis

Synthesis, characterization and Mössbauer studies of ferrite-polymer hybrid nanocomposites

(*Awarded from University of Rajasthan, Jaipur under the guidance of Dr. S. N. Dolia, Mossbauer & Magnetism Lab., Department of Physics, University of Rajasthan*)

Invited Talks

1. A talk on Blended (Hybrid) learning organized by AKPCTA unit, SN College, Cherthala, 15 January 2022.

2. A talk on NEP 2020 organized by SSL library, Karthikappally, Plat form: Face book Live

3. A talk on NEP 2020 for NCC students @ TKMM College. Platform: Google Meet

4. A talk on Green Corridors of Nanoscience at SN College, Kollam on behalf of the Annual Seminar Series ***AGORA 2020*** (04 March 2020)

5. A talk on Green Approaches in Nanotechnology at DB Pampa College, Parumala on behalf of the ***Chemistry Association Inauguration 2020*** (14 February 2020)

6. SWOC analysis of green synthesis for metallic oxide nanoparticles
   International Conference on Molecular Spectroscopy (ICMS 2017), jointly organized by International and Interuniversity Centre for Nanoscience and Nanotechnology (IIUCNN) & International Unit of Macromolecular Science and Engineering (IUMSE), Mahatma Gandhi University, Kottayam, Kerala, India (*10th December 2017*)

7. A talk on CARING AND SOOTHING on behalf of KSCSTE sponsored ***World Ozone Day Celebration*** at GHSS, Veeyapuram, Alappuzha. 17th Sept. 2017

8. Elucidating defect states and estimation of Urbach tail energy in plant mediated sol-gel synthesized semiconductors
   Second International Conference on Advanced Materials for Power Engineering (ICAMPE-2016), *IIUCNN, MG University, Kottayam (13 th November 2016)*

9. Conducting polymer coated nickel iron chromate
   Second International Conference on Nanostructured Materials (ICNM-2014), *IIUCNN, MG University, Kottayam* (December 2014)

10. Some Rare Earth (RE) Substituted Potential Low-Tc Superparamagnetic Nanoparticle System for Self-Controlled Magnetic Fluid Hyperthermia Based Therapeutic Applications.
    DCMPMS Seminars, Tata Institute of Fundamental Research, Mumbai, on (13th April 2010)

Conferences, Workshops & Courses attended

1. Annual board of studies meeting for Physics (PASS), University of Kerala on 14-11-2022
2. Workshop on **UG Physics syllabus revision-2022** organized by Board of studies in Physics (PASS), University of Kerala, held at Govt. Arts College, Thiruvananthapuram on 10/08/2022 and 11/08/2022.
3. **Connect Career to Campus Campaign Launch** jointly organized by ASAP, Higher Education Department and Kerala Knowledge Economy Mission at Girideepam Convention Center, Thiruvananthapuram on 2/08/2022
4. Workshop on **outcome-based syllabus revision of BSc Physics (CBCSS)**, organized by Board of studies in Physics, University of Kerala, held at SD College, Alappuzha, 30-11-2019.

5. One day state level workshop on **PFMS & EAT module**, organized by IQAC, St. Michael's College, Cherthala in association with PFMS SPMU Kerala Office, 23-09-2019
6. **Coordinators and Principal's Meet,** UG & PG Admission 2019 at Senate Chamber, University of Kerala., 10 June 2019
7. UGC sponsored **PFMS-EAT workshop**, St. Joseph College, Irinjalakkuda, Thrissur, 04 June 2019.
8. **CMDRF meet**, Senate Hall, University of Kerala, 2018
9. **International Conference on Synthesis and Applications of Functional Materials,** 9 & 10 October 2018, organized by dept. of Chemistry, S. B. College, Changanassery, Kottayam, Kerala, India.
10. **Coordinators and Principal's Meet,** UG & PG Admission 2018 at Senate Chamber, University of Kerala.
11. **International Conference on Molecular Spectroscopy (ICMS 2017)**, jointly organized by International and Interuniversity Centre for Nanoscience and Nanotechnology (IIUCNN) & International Unit of Macromolecular Science and Engineering (IUMSE), Mahatma Gandhi University, Kottayam, Kerala, India (*10th December 2017*)
12. **Science Academies' Lecture Workshop on "Advances in High Energy Physics"** hosted by Bishop Moore College, Mavelikkara (12-14 July 2017)
13. **Refresher Course** in Materials Science (21 days, from 29-11-2016 to 19-12-2016) conducted by **UGC-HRDC** at University of Kerala, Kariavattom Campus, Thiruvananthapuram (2016)
14. *Second International Conference on Advanced Materials for Power Engineering (**ICAMPE-2016**), IIUCNN, MG University, Kottayam (13 th November 2016)*
15. One Day Workshop for **Internal Mentors and Co-ordinators (Cluster meeting),** Walk With a Scholar Programme, Funded and Supported by Office of New Initiatives, Directorate of Collegiate Education, Govt. of Kerala at St. Gregorious College, Kottarakkara (2016)
16. National Seminar on Nanomaterials for Energy Applications held at department of Physics, S.N. College, Punalur (2016)
17. National Seminar on Modern Trent in Physics Research (**NSMTPR**) at St. Stephen's College, Pathanapuram (2015)
18. **145th Orientation programme** (28 days, from 03-09-2015 To 30-09-2015) conducted by **UGC-HRDC** at University of Kerala, Kariavattom Campus, Thiruvananthapuram (2015)
19. National Seminar on New frontiers in nanotechnology and materials science, sponsored by KSCSTE at Sree Narayana College, Chengannur, Alappuzha (2015).
20. National Nodal Center Conference on **Virtual lab**, supported by MHRD, Govt. of India, at Amrita University, Kollam (2015)
21. Workshop on **Virtual lab** (**VALUE@AMRITA**), supported by MHRD, Govt. of India as a follow up of IEEE events, at Amrita University, Kollam (2014)
22. Second International Conference on Nanostructured Materials (**ICNM-2014**), IIUCNN, MG University, Kottayam (2014)
23. Workshop of **co-ordinators and mentors of Walk With a Scholar Programme** organized by the Office of New Initiatives under Collegiate Education Department, Govt. of Kerala at Mar Ivaniose College, Thiruvananthapuram (2014)
24. The Grant Launch of ICT Academy of Kerala at Taj Vivanta, Thiruvananthapuram (2014)
25. UGC sponsored national seminar on "**Material Science and Modern Analytical Techniques**", MPMMSN Trusts College, Shoranur, Palakkad (2014)
26. Workshop on **MSc Syllabus Revision**, Organized by Board of Studies in Physics, University of Kerala at Govt. Women's College, Trivandrum (2013)
27. **55th DAE Solid State Physics Symposium**, Manipal University (2010)

28. **22nd Kerala Science Congress**", KFRI, Peechi(2010).
29. "National symposium for materials research scholar (**MR08**)" I.I.T Bombay (2008)
30. "**19th Kerala science congress** (***Contest paper***, chemical science)" CWRDM Kannur (2007).
31. National Conference on Thermo physical Properties of materials (**NCTP '07**) held at Amrita Vishwa Vidyapeetham, Kollam, Kerala (2007)
32. "**International conference on structure and dynamics: from macro to micro**", Univ.of Culcutta (2006).
33. "National conference on recent advances in materials science (**NCMS-2006**)" Periyar University, Salem (2006).
34. "**Workshop on functional oxide materials**" IUAC New Delhi (2006).
35. National Conference on **Organic electronics**, held at S. N. College, Kollam, Kerala (2006)
36. **18th Kerala science congress**, CESS, Trivandrum (2006)
37. National Seminar "**Jyothirgamaya**", S. N. College, Kollam (2005).
38. DAE sponsored National Seminar on **Environmental Impact on Human health**, Christian College, Chengannur (2004).

Organizational experiences:

1. Organized National Conference on Optics and Photonics (**NCOP 2K22**) (chairman, HoD). The seminar was scheduled on 14 & 15 November 2022 @ Seminar Hall, TKMM College, Nangiarkulangara.

2. Organized **DARSHAN '22** Multidisciplinary seminar series (General Coordinator) jointly by IQAC and various other departments.

3. Organized **FIZIKA '22** (Vice Chairman (HoD)), Exhibition by PG Department of Physics, TKMM College, Nangiarkulangara

4. Organized **DARSHAN '21** Multidisciplinary seminar series (General Coordinator) jointly by IQAC and various other departments.

5. Organized **SCIMAT '21** (Chairman (HoD)), International Webinar on materials Science.
6. General coordinator, **e-Darshan Webinar Series: 2020**, organised by IQAC in association with various departments at TKMM College, Nangiarkulangara, May-June 2020
7. Organized (**Vice chairman**) UGC Sponsored National Seminar on Spectroscopic Techniques (**NSST 2020**). The seminar was scheduled on 31 January 2020 @ Seminar Hall, TKMM College, Nangiarkulangara.

8. Being staff secretary coordinated the functioning of teaching staff association for the academic year 2017-18, 18-19 and 19-20 up to October. Annual get-together, 2 staff tour and budgetary (Rs. 2.50 lakhs) were completed at TKMM College, Nangiarkulangara.

9. Organized (**Coordinator**) a placement class for teachers on behalf of IQAC, TKMM College, Nangiarkulangara. Class conducted by Dr. Rakesh Chandran, Member Board of studies in Physics, University of Kerala.

10. Organized (**Coordinator**) EMC Sponsored Seminar on Materials for Energy Efficiency and Conservation (**MEEC 2019**). The seminar was scheduled on 12 &

13 March 2019 @ Seminar Hall, TKMM College, Nangiarkulangara. The program was financially supported by Energy Management Center, Department of Power, Government of Kerala.

11. Organized (**Coordinator**) Motivational visits to Regional Agriculture Research Station (RARS), Pilicode, Indian Naval Academy, Ezhimala and Bakel Fort for second year UG students of Walk with a Scholar programme, S.N. College, Punalur scheduled from 17/04/2016 to 20/04/2016.

12. Organized (**coordinator**) One Day external mentoring sessions on **Golden Rules of Success** by Sri. Sunil D. Kuruvila, Corporate Trainer, Insight Mission, Mavelikkara; on 04/04/2017

13. Being staff secretary, coordinated the functioning of teaching staff association for the academic year 2016-17, annual get-together, staff tour and budgetary at SN College, Punalur

14. Coordinated the conduct of internal mentoring sessions for Ninety top students of first, second and third year undergraduate programme from various departments under Walk With a Scholar Programme, Plan Scheme 2016-2017

15. Organized (**coordinator**) Mock Test & Mck Interview for Final Year WWS Mentees by TIME Institute, Kollam; on 03/04/2017

16. Organized (**coordinator**) One Day external mentoring sessions on **How to Build Soft Skills** by Sri. Gopakumar Melelil, JCI Trainer, Trivandrum; on 01/04/2017

17. Organized (**coordinator**) One Day external mentoring sessions on **Prospective of Higher Education** by Sri. Gopakumar Melelil, JCI Trainer, Trivandrum; on 25/03/2017

18. Organized (**coordinator**) One Day external mentoring sessions on **SWOT ANALYSIS** by Sri. Justin Thomas, Marketing Manager, TIME, Kollam; on 18/03/2017

19. Organized (**coordinator**) One Day external mentoring sessions on **Interview tips, Presentations, Group Discussions & Mock Interview** by Sri. Ajaykumar Kurup, JCI National Trainer, Trivandrum; on 11/03/2017

20. Organized (**coordinator**) One Day external mentoring sessions on **Group Activities and Leadership Qualities** by Sri. Ajaykumar Kurup, JCI National Trainer, Trivandrum; on 04/03/2017

21. Organized (**coordinator**) One Day external mentoring sessions on **Career Orientation and Group Discussion** by Sri. Premchandran Pillai, Corporate Trainer, Trivandrum; on 25/02/2017

22. Organized (**coordinator**) One Day external mentoring sessions on **Self Estimation and Meditation** by Sri. Premchandran Pillai, Corporate Trainer, Trivandrum; on 18/02/2017

23. Organized (**coordinator**) One Day external mentoring sessions on **How to live the life: A meditation class** by Sri. Prince Varghese, Trainer, MindIT Solutions, Kottayam; on 11/02/2017

24. Organized (**coordinator**) One Day external mentoring sessions on the topic **LOOK WITHIN** by **Sri. Prince Varghese**, Trainer, MindIT Solutions, Kottayam; on 04/02/2017

25. Organized (**coordinator**) One Day external mentoring sessions on ***Right Attitude for Success*** by **Sri. Ajithkumar Ramaswamy**, HRD Trainer, Mentor Academy, Kollam; on 21/01/2017

26. Member, organizing Committee, National Science Day celebrations @ Sree Narayana College, Punalur on 28 February 2017

27. Member, organizing Committee, National Seminar on Intellectual Property Rights.

28. Member, organizing Committee, ZEST 2016

29. Member, organizing Committee, National Seminar on World Ozone Day Celebration @ SNC Punalur, September 2016 (funded by KSCSTE)

30. Member, organizing Committee, World Environment Day Celebration @ SNC Punalur, June 2016 (funded by KSCSTE)

31. Being staff secretary, coordinated the functioning of teaching staff association for the academic year 2015-16, annual get-together and budgetary at SN College, Punalur

32. Organized (**Coordinator**) one day Motivational visit to Kerala State Science and Technology Museum, Thiruvananthapuram on 5/03/2016, CPCRI Kayankulam on 14/03/2016 and Techo Park, Thiruvananthapuram on 23/03/2016 for the second year UG students of Walk with a Scholar programme, S.N. College, Punalur.

33. Organized (**Coordinator**) one day external mentoring sessions on the topic entitled ***Personality Development and Communication Skill*** by Sri. Sunil D. Kuruvila, Insight Mission, Mavelikkara on behalf of the WWS Programme (Plan 2015-2016) at SNC Punalur

34. Organized (**Coordinator**) one day external mentoring session on the topic entitled ***Group Discussion and Interview Training*** by Sri. Sunil D. Kuruvila, Insight Mission, Mavelikkara on behalf of the WWS Programme (Plan 2015-2016) at SNC Punalur

35. Organized (**Coordinator**) one day external mentoring session on the topic entitled Goal ***setting, Stress Management & Time Management*** by Sri. Ajith Ramaswamy on behalf of the WWS Programme (Plan 2015-16) at SNC Punalur,

36. Organized (**Coordinator**) one day external mentoring session on the topic entitled The ***Right Attitude for Success*** by Sri. Ajith Ramaswamy on behalf of the WWS Programme (Plan 2015-2016) at SNC Punalur,

37. Organized (**Coordinator**) one day external mentoring session on the topic entitled ***LIFE & LIVING*** by Sri. Prince Varghese, MindIT Academy, Kottayam on behalf of the WWS Programme (Plan 2015-2016) at SNC Punalur,

38. Organized (**Coordinator**) one day external mentoring session on the topic entitled ***LOOK WITHIN*** Sri. Prince Varghese, MindIT Academy, Kottayam on behalf of the WWS Programme (Plan 2015-2016) at SNC Punalur,

39. Being staff secretary, coordinated the functioning of teaching staff association for the academic year 2014-15, annual get-together and budgetary at SN College, Punalur

40. Coordinated the conduct of internal mentoring sessions for sixty top students of first and second year undergraduate programme from various departments under Walk With a Scholar Programme, Plan Scheme 2015-2016

41. Organized (**Convener**), UGC Sponsored Golden Jubilee National Seminar on ***Nanomaterials for Energy Applications (NSNME)*** (2016) at SNC Punalur (Rs. 1 lakh, Completed)

42. Organized (**Coordinator**) One day external mentoring session ***on Motivation, Value Inculcation, Self Evaluation, Self Estimation and Self Confidence*** by Dr. DinakarLal Thavmony and Sri. Arun Gladvin , Vantage Academy, Nagercoil on behalf of WWS Programme at SNC punalur, sponsored by the office of New Initiatives in Higher Education, Directorate of Collegiate Education, Government of Kerala, TVM (2015)

43. Organized (**Coordinator**) half day external mentoring session on ***Life Skill Enrichment and Positive Attitude*** By Dr. S. Anand, Karunya Hospital, Punalur on behalf of the WWS Programme at SNC Punalur, sponsored by the office of New Initiatives in Higher Education, Directorate of Collegiate Education, Government of Kerala, TVM (2015)

44. Coordinated the conduct of internal mentoring sessions for thirty top students of first year undergraduate programme from various departments under Walk With a Scholar Programme, Plan Scheme 2014-2015

45. **Joint Secretary**, organising committee, National Conference on Thermo physical Properties of materials (NCTP '07) held at Amrita Vishwa Vidyapeetham, Kollam, Kerala (2007) under the joint collaboration with department of Physics, S. N. College, Kollam and Thermo-physical society of India

46. **Executive member**, organising committee, National Seminar on Organic electronics, held at S. N. College, Kollam, Kerala (2006)

Certifications:

Degree

1. ***Doctoral Degree (PhD)*** from University of Rajasthan
2. ***Master degree (MSc)*** in Physics with ***first division*** from University of Kerala
3. ***Bachelor degree (BSc)*** in Physics with ***first division*** from University of Kerala
4. ***Pre-degree*** in Science with ***first division*** from University of Kerala
5. ***Secondary School Leaving Certificate*** with ***first division*** from Kerala State Education Board

Service

1. Certificate of Service (order of relieving) as Asst, Professor from S.N. College, Punalur
2. Certificate of Service as Asst. Professor from AMACE, Kanchipuram, Chennai.

3. Certificate of Service as Asst. Professor from Jagannath University, Jaipur.
4. Certificate of Service as Sr. Lecturer from Jaipur National University, Jaipur.
5. Certificate of Service as JRF from UE & P laboratory, National Institute of Technology, Calicut
6. Certificate of service as JRF from Condensed Matter Physics Laboratory, SNC, Kollam

Other

1. Certificate of participation in ***Higher Education Seminar under Keraleeyam programme 2023***, organized by Dept. of Higher Education, Govt. of Kerala @ Sankaranarayanan hall in Legislative assembly, TVM, 6 Nov.2023
2. Certification of participation in workshop for ***MASTER TRAINERS for implementing FYUGP*** at affiliated Colleges under University of Kerala, 3, 4, Nov.2023
3. Certificate of invited talk on Green Corridors of Nanoscience at SN College, Kollam on behalf of the Annual Seminar Series *AGORA 2020*
4. Certificate of invited talk on Green Approaches in Nanotechnology at DB Pampa College, Parumala on behalf of the *Chemistry Association Inauguration 2020*
5. Certificate of participation in one day workshop on outcome-based syllabus revision of BSc Physics (CBCSS), organized by Board of studies in Physics, University of Kerala, held at SD College, Alappuzha, 30-11-2019
6. Certificate of participation in One day state level workshop on Public Finannce Management System (PFMS) & Expenditure, Advance and Transfer (EAT) Module, 23rd November 2019, organized by IQAC st. Michaels College in association with PFMS SPMU Kerala Office
7. Certificate of participation and paper presentation in International Conference on Synthesis and Applications of Functional Materials, 9 & 10 October **2018**, organized by dept. of Chemistry, S. B. College, Changanassery, Kottayam, Kerala, India
8. Certificate of participation in UG syllabus Revision work shop.
9. Certificate of participation and invited lecture in International Conference on Molecular Spectroscopy **(ICMS 2017)**, jointly organized by IIUCNN & IUMSE, M.G. University, Kottayam, Kerala, India (*10th December2017)*
10. Certificate of chaired session in International Conference on Molecular Spectroscopy **(ICMS 2017)**, jointly organized by IIUCNN & IUMSE, M.G. University, Kottayam, Kerala, India (*10th December2017)*
11. Certificate of participation in three days **Science Academies' Lecture Workshop on "Advances in High Energy Physics"** hosted by Bishop Moore College, Mavelikkara (12-14 July 2017)
12. Certificate of participation in 21 days long Refresher course in Materials Science at UGC-HRDC, University of Kerala, Kariavattom, Thiruvananthapuram
13. Certificate of participation and invited lecture in *Second International Conference on Advanced Materials for Power Engineering (**ICAMPE-2016**),* IIUCNN, MG University, Kottayam
14. Certificate for chaired sessions in *Second International Conference on Advanced Materials for Power Engineering (**ICAMPE-2016**),* IIUCNN, MG University, Kottayam
15. Certificate of participation in one day Workshop for **Internal Mentors and Co-ordinators (Cluster meeting),** Walk With a Scholar Programme, St. Gregorious College, Kottarakkara
16. Certificate of participation and paper presentation in National Seminar on Modern Trent in Physics Research (**NSMTPR**) at St. Stephen's College, Pathanapuram

17. Certificate of participation in 28 days long 145th Orientation Programme at UGC-HRDC, University of Kerala, Kariavattom, Thiruvananthapuram
18. Certificate of participation and paper presentation in National seminar on new frontiers in nanotechnology and materials science, sponsored by KSCSTE and organized by Sree Narayana College, Chengannur
19. Certificate of participation in National Nodal Center Conference on Virtual lab, sponsored by MHRD and Amrita University
20. Certificate for the review of research papers for DAE solid state Symposium held at VIT University
21. Certificate of participation in Workshop on VALUE @ Amrita, sponsored by MHRD and Amrita University
22. Certificate for chairing the session in ICNM-2014, MG University, Kottayam.
23. Certificate of participation and invited talk in ICNM-2014, MG University, Kottayam
24. Certificate of participation in Workshop of co-ordinators and mentors of Walk With a Scholar Programme organized by the Office of New Initiatives, Directorate of Collegiate Education, Govt. of Kerala
25. Certificate of participation in the Grant Launch of ICT Academy of Kerala at Taj Vivanta, Thiruvananthapuram
26. Certificate of participation in UGC sponsored national seminar on "Material Science and Modern Analytical Techniques", MPMMSN Trusts College, Shoranur, Palakkad
27. Certificate of participation in Workshop on MSc Syllabus Revision, Organized by Board of Studies in Physics, University of Kerala
28. Certificate for the review of research papers for DAE solid state Symposium held at Thapar University
29. Certificate of participation and paper presentation in 55th DAE Solid State Symposium, Manipal University
30. Certificate of participation and paper presentation in 22nd Kerala Science Congress, KFRI, Peechi
31. Certificate of participation and paper presentation in National symposium for materials research scholars, I.I.T Bombay.
32. Certificate of participation and paper presentation in International conference on structure and dynamics: from macro to micro, Univ. of Culcutta
33. Certificate of participation and paper presentation (Contest paper, chemical science) in 19th Kerala science congress, CWRDM, Kannur.
34. Certificate of participation and paper presentation in National conference on thermophysical properties, Amrita University, Kollam.
35. Certificate of participation and paper presentation in Workshop on functional oxide materials, IUAC, New Delhi.
36. Certificate of participation and paper presentation in National conference on recent advances in materials science, Periyar University, Salem.
37. Certificate of participation in a training school conducted at BARC, Mumbai.
38. Certificate of participation in 18th Kerala science congress, CESS, Trivandrum.
39. Certificate of participation and paper presentation in National Seminar on organic electronics, S. N. College, Kollam.
40. Certificate of participation and paper presentation in Jyothirgamaya, S. N. College, Kollam
41. Certificate of participation in National Seminar on Environmental Impact on Human health, Christian College, Chengannur.

Working Address:

Assistant Professor (level 12) & Head, Post Graduate Department of Physics, TKMM College, Nangiarkulangara, Alappuzha, Kerala (India) PIN:

Permanent address (for correspondence):

PAVITHRAM. Poovathoor P.O., Koippram, Pathanamthitta Dist., Kerala

Family:

N. Sivaprasad (Father, CRPF Ex-service (late))
N. Sobhana (Mother, Rtd. from Krishibhavan, Govt. of Kerala)
Dr. Prathibha Vasudevan (Wife, Assistant Professor, PG & Research Department of Physics, St. Thomas College, Kozhenchery, Pathanamthitta, Kerala)
Arpitha Arun (Daughter)
Niveditha Arun (Daughter)

References:

1. **Dr. Sharmila P. P.,** Principal, TKMM College, Nangiarkulangara, Alappuzha, Kerala (sharmilavishram@gmail.com)
2. **Dr. S. N. Dolia**, Associate Professor, Department of Physics, University of Rajasthan, Jaipur (India)[E-mail: sndolia64@gmail.com]
3. **Dr. Sherly P. Anand,** Principal (Rtd), TKMM College, Nangiarkulangara, Alappuzha, Kerala (drsherlypanand@gmail.com)

LIST OF PUBLICATIONS
In refereed journals & proceedings

(Since joined TKMM College, Nangiarkulangara)

1. Investigation on bio-synthesized Ni- and Al-doped cobalt ferrite using lemon juice as eco-fuel
   Vibhu T. Sivanandan, Ramany Revathy, Arun S. Prasad
   Journal of Alloys Compd., 972, 172726 (2023), DOI:10.1016/j.jallcom.2023.172726
   Impact factor (6.2)

2. Room temperature ferromagnetic behavior of nanocrystalline $LaFeO_3$ perovskite oxide synthesized through phytochemical mediated combustion technique,
   Pranav Prasad, Vibhu T. Sivanandan, Arun S. Prasad
   Journal of Cluster Science, (2023), DOI: 10.1007/s10876-023-02516-6
   Impact factor (2.8)

3. Impact of Green Synthesis on Crystallographic Structure, Optical and Magnetic Properties of Nanocrystalline $CoFe_2O_4$
   Vibhu T. Sivanandan, Arun S Prasad
   Journal of Electronic Materials (Springer Nature) **52**, pages 4045–4056 https://doi.org/10.1007/s11664-023-10354-5 (2023) (Impact factor: 2.1)

4. Sucrose mediated synthesis and XPS analysis of nanocrystalline LaCrO3 perovskite oxide
   Pranav Prasad, Sai Kiran, M. Meenu, Arun S. Prasad
   Materials Today: Proceedings (Elsevier), Volume 80, Part 2, Pages 1209-1213, https://doi.org/10.1016/j.matpr.2022.12.200 (2023)

5. Crystallographic studies and optical analysis on nanocrystalline $Cr_xFe_{2-x}O_3$ ($0 \leq x \leq 2.0$) synthesized through hersperidin mediation
   Praveen K. H., Arun S. Prasad, Prathibha Vasudevan
   Journal of Crystal Growth (Elsevier), (ISSN: 0022-0248) vol. 581, (2022) 126513
   (Impact factor: 1.795)

6. Crystallographic and micro-structural investigations in C-phase spinels of $CuFe_2O_4$ synthesized through $C_{12}H_{22}O_{11}.H_2O$ mediation.
   Vibhu T. Sivanandan, Arun S Prasad
   Micron (Elsevier), (ISSN: 0968-4328), vol. 141, (2021)102993
   (Impact factor: 2.251)

7. Lactose monohydrate ($C_{12}H_{22}O_{11} \cdot H_2O$) mediated synthesis and spectral analysis of nanocrystalline $Ni_{0.5}Cu_{0.5}Fe_2O_4$
   Vibhu T. Sivanandan, Arun S Prasad
   International Journal of Materials Research (ISSN: 2195-8556), vol. 112(12) (2021) 980-984.
   (Impact factor: 0.748)

8. Phytochemical Mediated Sol–Gel Synthesis, Crystallographic Structure, Morphology and Optical Investigations on ZnO Nanoparticles
   Prathibha Vasudevan, Arun S. Prasad
   Journal of Cluster Science (Springer), (ISSN: 1040-7278), vol. 32(5) (2021) 1253-1260.
   (Impact factor: 3.061)

9. Hesperidin mediated synthesis, structure and optical emission analysis on nanocrystalline CuO
   K. H. Praveen, Arun S. Prasad
   Materials Today: Proceedings, (ISSN: 2214-7853), vol. 41 (2021) 520-524.

10. Chrysin mediated synthesis, crystallographic structure and optical emission characteristics of ZnO nanoparticles
    K. H. Praveen, Arun S. Prasad
    Materials Today: Proceedings, (ISSN: 2214-7853), vol. 41 (2021) 590-595

11. Green synthesis and spectral analysis of surface encapsulated copper (II) oxide nanostructures
    Arun S. Prasad
    Materials Science-Poland, (ISSN: 2083-1)334X), vol. 7(3), 2019, pp. 503-509
    (Impact factor: 1.022)

(Since joined S.N. College, Punalur)

12. Synthesis and Characterization of Silver Nanoparticles using Bread Mold Extract
    Anandhu S. Satheesh, Akhila Prabhakaran, Deepak T, Praveen K.H and **Arun S. Prasad**

Int. J. Adv. Research in Sci. Engg. (ISSN: 2319-8354), vol. 6. No.3(2017) 54-59

13. Biogenic Synthesis of Iron Oxide Nanoparticles using leaf Extract of *Clitoria ternatea*
    Cibin Baby, Athira Prasad, Kanchana A., Rajeswary M., Sajitha M., Praveen K.H. and **Arun S. Prasad**
    Int. J. Adv. Research in Sci. Engg. (ISSN: 2319-8354), vol. 6. No.3(2017) 66-71

14. Green Synthesis of Nanocrystalline Manganese (II, III) Oxide
    Arun S. Prasad
    Mat. Sci. Sem. Cond. Process. (ISSN: 1369-8001). vol. 71 (2017) 342–347
    (Impact factor: 3.927)

15. Iron Oxide Nanoparticles synthesized by controlled bio-precipitation using leaf extract of Garlic Vine (*Mansoa alliacea)*
    Arun S. Prasad
    Mat. Sci. Sem. Cond. Process. (ISSN: 1369-8001),vol. 53 (2016) 70-83
    (Impact factor: 3.927)

16. Spin injection behavior in conducting polymer coated superparamagnetically functional microstructures
    Arun S. Prasad
    Modern Physics Lett. B. Vol. 28 (2014) 1450119

(After awarded doctoral degree from University of Rajasthan, Jaipur)

17. Size dependent structure and magnetic behaviour of $CaFe_2O_4$
    Arvind Samariya, S. N. Dolia, **Arun S. Prasad**, P. K. Sharma, S. P. Pareek, M. S. Dhawan and Sudhish Kumar
    Current Applied Physics (2013),(ISSN: 1567-1739), vol. 13, pp. 830-835
    (Impact factor: 2.48)

18. Effect of 200 MeV Ag^{+15} Ion Irradiation on Magnetic And Dielectric Properties of Nanocrystalline Zn-Cr Ferrite
    S. N. Dolia, S. P. Pareek, Arvind Samariya, P. K. Sharma, **Arun S. Prasad**, M. S. Dhawan, Sudhish Kumar, K. B. Sharma and K. Asokan
    Radiation Effects and Defects in Solids (2013) Vol. 168 (7-8) 525-531

19. 200 MeV Ag^{+15} ion irradiation-induced modifications in structural, magnetic and dielectric properties of nanoparticles of $Cu_{0.2}Zn_{0.8}Fe_2O_4$ ferrite
    S. N. Dolia, P. K. Sharma, Arvind Samariya, S. P. Pareek, **Arun S. Prasad**, M. S. Dhawan Sudhish Kumar, K. Asokan
    Radiation Effects and Defects in Solids , Vol-168, No-7-8, Pages: 537 - 546, May 2013

20. Temperature dependent dielectric behavior of nanocrystalline Ca ferrite
    Arvind Samariya, S. P Pareek, P. K. Sharma, **Arun S. Prasad**, M. S. Dhawan, S. N. Dolia, K. B. Sharma
    Int. J. Modern Physics: Conference Series (2013) Vol. 22, pp. 466-470
    (Paper presented at International Conference at Bekanir, Rajasthan, India)

21. Dielectric behaviour of nanocrystalline $Cu_{0.2}Ni_{0.8}Fe_2O_4$ ferrite
    SP Pareek, A Samariya, PK Sharma, **Arun S. Prasad**, MS Dhawan, SN Dolia, KB Sharma

AIP Conference Proceedings (2013) Vol. 1536, p.999
(Presented at International conference on recent trends in applied physics and material science: RAM 2013)

22. Study of cation distribution in Cu-Zn ferrites
PK Sharma, Arvind Samariya, SP Pareek, MS Dhawan, **Arun S. Prasad**, S.N. Dolia
AIP Conference Proceedings (2013) Vol. 1536, p.997
(Presented at International conference on recent trends in applied physics and material science: RAM 2013)

23. Swift Heavy Ion Irradiation induced modifications in magnetic and dielectric properties of Mn-Ca ferrite
S. N. Dolia, P. K. Sharma, M. S. Dhawan, S. Kumar, **Arun S. Prasad**, Arvind Samariya, Shyam Pareek, R. K. Singhal and K. Asokan
Appl. Surf. Sci. (ISSN: 0169-43320, vol. 258 (2012) 4207–4211
(Impact factor: 6.707)

24. Electrochemical polymerization of aniline using natural rubber-coated platinum electrode
B. Syamkrishna, **Arun S. Prasad** and K. Remadevi
Journal of Elastomers and Plastics Vol.44 (3) (2012) 297-306

25. Synthesis, structural and magnetization studies of nanocrystalline $Cu_{1-x}Zn_xFe_2O_4$
P. K. Sharma, **Arun S. Prasad**, Arvind Samaria, M. S. Dhawan, S. N. Dolia, R. K. Singhal and Sudhish Kumar
American Inst. Phys. Conf. Proc. Vol. 1349(2011) 389-390

26. Dielectric behavior of bulk and nanocrystalline Zn-Mnferrite
S. P. Pareek, **Arun S. Prasad**, S. N. Dolia1 S. Kumar, M. S. Dhawan, Arvind Samariya, K. Asokan, Jyoti Parashar, V. K. Saxena and K. B. Sharma
American Inst. Phys. Conf. Proc. Vol. 1349(2011) 309-310
(Presented at DAE SSPS, Manipal University)

27. Magnetization enhancement in nanocrystalline $Co_{0.4}Zn_{0.6}Fe_2O_4$ by 200 MeV Ag^{+15} ion irradiation
S.N. Dolia, M.S. Dhawan, **Arun S. Prasad**, Sudhish Kumar, A. Samariya, R.K. Singhal and Ravi Kumar
Radiation Effects and defects in solids Vol. 166 No. 8-9 (2011) 558-563(6)
(Presented at SHIMEC 2010, IUAC Delhi)

28. Dielectric behavior of nano-crystalline spinel $Ni_{0.2}Ca_{0.8}Fe_2O_4$ and their nanocomposite with polypyrrole
Arun S. Prasad, S. N. Dolia and P. Predeep
Bullet. Mat. Sci. (ISSN:0973-7669), vol. 34 No. 7 (2011) pp.1305-1308
(Impact factor: 1.783)

29. Dielectric Behavior of Nano sized Particles of Zn-Cr Ferrite
SN Dolia, PK Sharma, MS Dhawan, A Samariya, SP Pareek, **Arun S Prasad**, RK Singhal, Sudhish Kumar
AIP Conf. Proc. (2011) Vol. 1372, p. 212
(Presented at XVI National Seminar on Ferroelectrics and Dielectrics (NSFD-XVI), Bilaspur (M. P))

30. Synthesis and size dependent magnetic behaviour of nanocrystalline $Cu_{0.2}Ni_{0.8}Fe_2O_4$ ferrite
S. N. Dolia, P. K. Sharma, M. S. Dhawan, A. Samariya, S. P. Pareek, **Arun S. Prasad**, R. K. Singhal, and Sudhish Kumar
AIP Conf. Proc. -- October 20, 2011 – Vol. 1391, pp. 59-61
(Presented at Optics: Phenomena, materials, devices, and characterization: Optics 2011: International Conference on Light at Calicut (Kerala))

(While pursuing doctoral degree at University of Rajasthan, Jaipur)

31. Nanocrystalline Spinel $Mn_xCu_{1-x}Fe_2O_4$ ferrites – Synthesis and Structural Elucidation using X-ray Diffraction and Positron Annihilation Techniques
P. Predeep, **Arun S. Prasad**, S. N. Dolia, M. S. Dhawan, D. Das, S. K. Chaudhuri and Vipasha Ghose.
IEE Transactions on Magnetics, (ISSN: 0018-9464), vol. 46, No.3 (2010) 847-851.
(Impact factor: 1.7)

32. Optical band gap study of nanocrystalline $NiCr_{0.8}Fe_{1.2}O_4$ ferrite
Arun S. Prasad, S. N. Dolia, M. S. Dhawan and P. Predeep
American Inst. Phys. Conf. Proc. (2008) 1004, 112.

33. Magnetic behaviour of nanocrystalline $Ni_{0.5}Cu_{0.5}Fe_2O_4$
S. N. Dolia, **Arun S. Prasad**, M. S. Dhawan, M. P. Sharma and Subhash Chander
Hyperfine Interact. Vol. 184 (2008) 75-81.

34. Mössbauer study of nanoparticles of $Co_{0.4}Zn_{0.6}Fe_2O_4$
S. N. Dolia, **Arun S. Prasad**, M. S. Dhawan, Subhash Chander, M. P. Sharma
Ind. J. Pure & Appl. Phys. Vol. 45 (2007) 826-829

PAPERS PRESENTED IN INTERNATIONAL CONFERENCES

35. Structural and optical investigations on $LaCrO_3$ synthesized through solution combustion technique using sucrose
Sai kiran, Pranav P. and Arun S. Prasad
International Conference on Materials-properties, measurements and Applications (ICMPMA 2022) at Fatima Mata National College, Kollam (9-13 May 2022)

36. Structural and compositional investigations on $LaFeO_3$ synthesized through ascorbic acid mediated solution combustion technique
Meenu M., Pranav P. and Arun S. Prasad
International Conference on Materials-properties, measurements and Applications (ICMPMA 2022) at Fatima Mata National College, Kollam (9-13 May 2022)

37. Structural analysis on c phase copper (II) iron(III) oxide spinel
Vibhu T. Sivanandan and Arun S. Prasad
International Conference on Materials-properties, measurements and Applications (ICMPMA 2022) at Fatima Mata National College, Kollam (9-13 May 2022)

38. Synthesis, characterization and optical studies of CuSnO3 using Rooibos tea natural extracts

International Virtual Conference on Recent trends in Materials Science (ICRTMS 2021), at Bannari Amman Institute of Technology, Sathyamangalam, TN, India (20-21 December 2021)

39. Synthesis, characterization and optical studies of CuSnO3 using Rooibos tea natural extracts
    International Virtual Conference on Recent trends in Materials Science (ICRTMS 2021), at Bannari Amman Institute of Technology, Sathyamangalam, TN, India

40. Synthesis, Characterization and Optical studies of $ZnSnO_3$ using Roobios Tea Natural Extracts
    Pranav P. and Arun S. Prasad
    International E-conference on sustainable and futuristic materials (SFM 2021) Organized by Department of Chemistry, J.M. Patel Arts, Commerce and Science College, Bhandra (29 -30 Nov. 2021)

41. Hesperidin mediated synthesis, structure and optical emission analysis on nanocrystalline CuO
    Praveen K. H. and **Arun S. Prasad**
    International Conference on Energy and Environment (**ICEE 2k19**), 12-14 December **2019**, Jointly organized by Dept. of Physics & Chemistry, TKM College of Arts & Science, Kollam

42. Chrysin mediated synthesis, crystallographic structure and optical emission characteristics of ZnO nanoparticles
    Praveen K. H. and **Arun S. Prasad**
    International Conference on Energy and Environment (**ICEE 2k19**), 12-14 December **2019**, Jointly organized by Dept. of Physics & Chemistry, TKM College of Arts & Science, Kollam

43. Lactose monohydrate ($C_{12}H_{22}O_{11}.H_2O$) mediated synthesis and spectral analysis on nanocrystalline $Ni_{0.5}Cu_{0.5}Fe_2O_4$
    Vibhu T. S. and **Arun S. Prasad**
    International Conference on Energy and Environment (**ICEE 2k19**), 12-14 December **2019**, Jointly organized by Dept. of Physics & Chemistry, TKM College of Arts & Science, Kollam

44. Hesperidin mediated synthesis and characterization of $Ni_xCu_{1-x}O$
    Akash A. K., Amala Bhas S., Pournami M. Gopanraj and **Arun S. Prasad**
    International Conference on Synthesis and Applications of Functional Materials, 9 & 10 October **2018**, organized by dept. of Chemistry, S. B. College, Changanassery, Kottayam, Kerala, India

45. Hesperidin mediated synthesis and characterization of $NiFe_2O_4$
    Sreelekshmi A., Vishnupriya P. R. and **Arun S. Prasad**
    International Conference on Synthesis and Applications of Functional Materials, 9 & 10 October **2018**, organized by dept. of Chemistry, S. B. College, Changanassery, Kottayam, Kerala, India

46. SWOC analysis of green synthesis for metallic oxide nanoparticles
    Arun S. Prasad
    International Conference on Molecular Spectroscopy **(ICMS 2017)**, jointly organized by International and Interuniversity Centre for Nanoscience and Nanotechnology (IIUCNN) & International Unit of Macromolecular Science and

Engineering (IUMSE), Mahatma Gandhi University, Kottayam, Kerala, India (*10th December 2017)*

47. Elucidating defect states and estimation of Urbach tail energy in plant mediated sol-gel synthesized semiconductors
Arun S. Prasad
ICAMPE-2016, at IIUCNN, MG University, Kottayam, India

48. Conducting polymer coated nickel iron chromate
Arun S. Prasad
ICNM-2014, at IIUCNN, MG University, Kottayam, India

49. Surface Structural Defect Analysis of Nanocrystalline Spinel $Ni_xCa_{1-x}Fe_2O_4$, Where x=0.2, 0.4 and 0.8
Arun S. Prasad, S. N. Dolia, M. S. Dhawan, P. Predeep, S. K. Chaudhuri, D. Das and Vipasha Ghose. **ICONSAT**, IIT Mumbai (2010)

50. Mössbauer Studies on Functionally Modified Super-paramagnetic Spinel $Ni_{0.4}Ca_{0.6}Fe_2O_4$ Nano-ferrite
Arun S. Prasad, M. S. Dhawan, S. N. Dolia, P. Predeep, Arvind Samariya, V. R. Reddy and R. K. Singhal, "**International Conference on Multifunctional Oxide Materials**", H. P. University, Shimla (2009)

51. Positron Annihilation Study of Nanocrystalline $NiCr_xFe_{2-x}O_4$ Ferrite (x=0.2, 0.4, 0.6, 0.8 and 1)
Arun S. Prasad, M. S. Dhawan, S. N. Dolia, P. Predeep, S. K. Chaudhuri, D. Das, Vipasha Ghose, "**International Conference on Multifunctional Oxide Materials**", H.P. University, Shimla (2009).

52. Magnetic behavior of Polypyrrole coated $Ni_{0.2}Ca_{0.8}Fe_2O_4$ Spinel nanoferrite core structure
S. N. Dolia, **Arun S. Prasad**, M. S. Dhawan, P. Predeep, M. P. Sharma and V. R. Reddy, "**The International Conference for Nanotechnology Industries The Leading Technology of 21st Century**", Riyadh, Saudi Arabia (2009).

53. Magnetic behaviour of nanocrystalline $Ni_{0.5}Cu_{0.5}Fe_2O_4$ (Refereed)
S. N. Dolia, **Arun S. Prasad**, M. S. Dhawan, M. P. Sharma and Subhash Chander "International conference on the Application of Mössbauer Effect **(ICAME-07**)", I.I.T Kanpur (2007).

54. Synthesis, Structure and Identification of Self Assembled NiCa Ferrite-Polyaniline Hybrid Nanocomposites
G.Ramachandra Reddy, **Arun S. Prasad** and Padmanabhan Predeep
MRS, Symposium I: Nanoscale Magnetic Materials and Applications, poster 114.7 USA, November 25 – 30 (2007)

55. Ac conductivity measurements on nanodimensional spinel ferrites synthesized by sol-gel method
Arun S. Prasad, S. N. Dolia and P. Predeep
"International symposium for research scholars (**ISRS 2006**)", I.I.T Chennai (2006).

56. Preparation of nanoparticles of Ni-Ca ferrites by sol-gel method and its characterization
Arun S. Prasad, S. N. Dolia and P. Predeep

"**International conference on structure and dynamics: from macro to micro**", Univ.of Culcutta (2006)

PAPERS PRESENTED IN NATIONAL CONFERENCES & WORKSHOPS

57. Lactose monohydrate ($C_{12}H_{22}O_{11}.H_2O$) mediated synthesis and characterization of nanocrystalline $NiFe_2O_4$
    Vibhu T. S. and **Arun S. Prasad**
    National Seminar on Interdisciplinary Advances in Physics (**NSIAP-19**), 10-11 October 2019, organized by Department of Physics, Government for women College, Thiruvananthapuram & sponsored by Directorate of Collegiate Education, Govt. of Kerala.

58. Nanotechnology of making GMR Materials
    Arun S. Prasad
    Proceedings of MEEC 2019.pp 10-13.

59. Characteristic analysis of copper oxide nanoparticle prepared using leaf extract of Eclipta prostrate
    Anandhu S. Satheesh, Praveen K. H. and **Arun S. Prasad**
    Proceedings of MEEC 2019.pp 35-41.

60. Coffee bean mediated synthesis of ZnO nanoparticles
    Praveen K. H., Anandhu S. Satheesh and **Arun S. Prasad**
    Proceedings of MEEC 2019.pp 42-48.

61. Analysis on the effect of annealing temperature in crystallographic structure and band gap variations in nanocrystalline $CuFe_2O_4$ spinels prepared by $C_{12}H_{22}O_{11}.H_2O$ mediated synthesis.
    Vibhu T. S. and **Arun S. Prasad**
    Proceedings of MEEC 2019.pp 49-50

62. Analysis on crystallographic structure, size and band gap variations in annealed $CuFe_2O_4$ Spinels
    Vibhu T. S. and **Arun S. Prasad**
    Presented in 31st Kerala Science Congress as Poster @ FMNC, Kollam (**KSC 2019**)

63. Biogenic synthesis of iron oxide nanoparticles using leaf extract of *clitoria ternatea*
    Cibin Baby[1], Athira Prasad[1], Kanchana A.[1], Rajeswary M.[1], Sajitha M.[1],Praveen K.H.[1] and **Arun S. Prasad**[2*]
    KSCSTE sponsored National Seminar (***AFM 2017***) @ All saints College, TVM

64. Synthesis and characterization of silver nanoparticles using bread mold extract
    Anandhu S. Satheesh[1], Akhila Prabhakaran[1], Deepak T.[1], Praveen K.H.[1] and **Arun S. Prasad**[2*]
    KSCSTE sponsored National Seminar (***AFM 2017***) @ All saints College, TVM

65. Characteristic analysis and antibacterial studies of silver nanoparticles synthesized using Yeast extract
    Akhila Prabhakaran[1], Anandhu S. Satheesh[1], Deepak T.[1], Praveen K.H.[1] and **Arun S. Prasad**[2*]

National Seminar (***NSAM 2017***) @ Dept. of Chemistry, University of Kerala, Kariyavattom, TVM

66. Green Synthesis of Iron Oxide Nanoparticles using Curry Leaf Extract
Deepak T.[1], Anandhu S. Satheesh[1], Akhila Prabhakaran[1], Praveen K.H. [1] and **Arun S. Prasad**[2*]
National Seminar (***NSAM 2017***) @ Dept. of Chemistry, University of Kerala, Kariyavattom, TVM

67. Green Synthesis of Nanocrystalline Metal Oxide Semiconductors
Arun S. Prasad
Presented at **Refresher course in Materials Science** at UGC-HRDC, University of Kerala, Kariavattom, Thiruvananthapuram (2016)

68. Green Reduction of Metallic Precursor Salts using Plant Extracts: a Novel route for Nanoparticle Synthesis
Pooja Dileep S. and **Arun S. Prasad**
National Seminar on Nanomaterials for Energy Applications (NSNME) @ SN College, Punalur (2016)

69. Green Synthesis and Spectroscopic Investigation of Copper Oxide Nanoparticles
Athira Rajendran and **Arun S. Prasad**
National Seminar on Nanomaterials for Energy Applications (NSNME) @ SN College, Punalur (2016)

70. Hall Williamson Analysis of X-Ray Diffraction Data for Nickel Chromium Ferrites
Neethu Joy and **Arun S. Prasad**
National Seminar on Nanomaterials for Energy Applications (NSNME) @ SN College, Punalur (2016)

71. Green Reduction and Spectroscopic Investigation of Iron (II) Sulphate Heptahydrate Precursor using Leaf Extract of Kiriyath (Andrographis paniculata)
Pooja Dileep S., Athira Rajendran, Jeena N. and **Arun S. Prasad**
Proceedings of National Seminar on Modern Trent in Physics Research (**NSMTPR**) at St. Stephen's College, Pathanapuram (2015)

72. Green Corridors of Nanotechnology
Arun S. Prasad
Presented at **145th Orientation Programme** at UGC-HRDC, University of Kerala, Kariavattom, Thiruvananthapuram (2015)

73. Characteristic and Thermo gravimetric Analysis of Biogenic reduction in Copper Sulphate Pentahydrate using the Leaf Extract of *Eclipta alba*
Athira Rajendran, Pooja Dileep S., Jeena N. and **Arun S. Prasad**
Proceedings of **National Seminar on Green Analytical Techniques (NSGAT-2015)** at DB College Sasthamcotta

74. Characteristic studies on High K magnetopolymeric composites: A claim material for smart device applications
Arun S. Prasad
National Seminar on New Frontiers in Nanotechnology and Materials Science, Sponsored by KSCSTE at Sree Narayana College, Chengannur, Alappuzha (2015)

75. Green synthesis and Spectral analysis of Iron Nanoparticles using Neem leaf extract
Arun S. Prasad, Gopan Raj
NSCAST-2015, Sponsored by UGC, Oragnised by Department of Chemistry, S. N. College, Punalur

76. Quenching of superparamagnetism in nanoparticles of iron nickel chromate ($NiCr_xFe_{2-x}O_4$) Synthesized by sol-gel method
Arun S. Prasad, S. N. Dolia, Arvind Samariya, M. S. Dhawan, P. K. Sharma
RAMSE 2010, Jaypee University, Guna(2010)

77. Magnetic Ferrite nanoparticles for cancer treatment
Arun S. Prasad, S. N. Dolia and P. Predeep
"**22nd Kerala Science Congress**", KFRI, Peechi (2010).

78. Mössbauer study of Ca2+ doped NiFe2O4 spinels synthesized by sol-gel autocombustion method
Arun S. Prasad, M. S. Dhawan, S. N. Dolia and P. Predeep
"National symposium for materials research scholar (**MR08**)" I.I.T Bombay (2008).

79. ^{57}Fe Mössbauer spectroscopic study of polyaniline-$ZnFe_2O_4$ composites
Arun S. Prasad, S. N. Dolia, P. Predeep and M. S. Dhawan
"Second national conference on condensed matter and material physics (**CMMP-2007**)" Univ. of Rajasthan, Jaipur (2007).

80. Electromagnetically functionalized polyaniline based composites
Arun S. Prasad, S. N. Dolia, P. Predeep and M. S. Dhawan
"Second national conference on condensed matter and material physics (**CMMP-2007**)" Univ. of Rajasthan, Jaipur (2007).

81. Optical band gap study of nanocrystalline Ca-Ni ferrite
M. S. Dhawan, **Arun S. Prasad**, S. N. Dolia, K. V. R. Rao, Manoj kumar and Usha Chandra
"Second national conference on condensed matter and material physics (**CMMP-2007**)" Univ. of Rajasthan, Jaipur (2007).

82. Magnetic behaviour of nano-crystalline Ca-Ni ferrite
S. N. Dolia, M. S. Dhawan, **Arun S. Prasad** and M.P. Sharma
"Second national conference on condensed matter and material physics (**CMMP-2007**)" Univ. of Rajasthan, Jaipur (2007).

83. Plastic nanomagnets from multifunctional hybrid nanostructures containing spinel $Ni_xCa_{1-x}Fe_2O_4$
Arun S. Prasad, S. N. Dolia and P. Predeep
"**19th Kerala science congress** (***Contest paper***, chemical science)" CWRDM Kannur (2007).

84. Synthesis, characterization and Mössbauer studies of $FeCl_3$ doped polyethylene
Arun S. Prasad, C. O. Sreekala, P. Predeep and S. N. Dolia
"National conference on recent advances in materials science (**NCMS-2006**)" Periyar University, Salem (2006).

85. ^{57}Fe Mössbauer spectroscopic study of polyaniline-$ZnFe_2O_4$ composites
Arun S. Prasad, S. N. Dolia, P. Predeep, M. S. Dhawan and M. P. Sharma
"**Workshop on functional oxide materials**" IUAC New Delhi (2006).

DECLARATION:

I do hereby declare that all the details furnished above are true and correct to the best of my knowledge and belief.

Place: Nangiarkulangara (Alappuzha)
Date: 27 -12-2023 **Arun S. Prasad**