Name : Dr. C. Selva Kumar

Designation: Professor and Head

Department: Physics

Qualification: M.Sc., M.Ed., Ph.D.

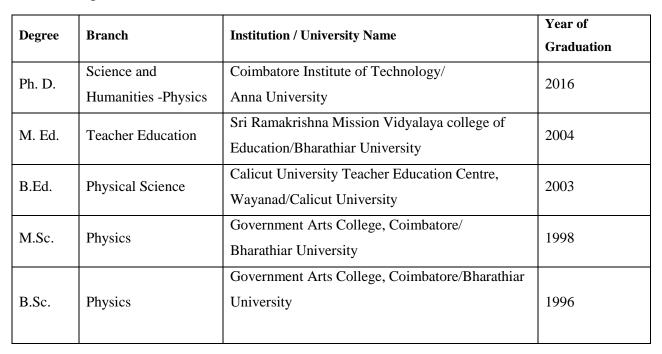
Experience:

Teaching : 18.9 Years **Research** : 11 Years

Area of Specialization(s) : Thin films, Nano Technology, Teacher Education

Email : selvakumar@drngpasc.ac.in

Academic Qualifications



Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
Ph. D. (PT)	-	01

Patent Published

Title of Patent	Agency	Status	Date
Smart System and Method For Inventory	Indian patent Office	Published	11.03.2022
Management Warehouse	moran patent office		



Research Publications (Indexed)

International:

- C Selvakumar, & T. Venkatachalam, "Structural and Optical Properties of Cdsnte2 Thin Films Prepared by Using Closed Space Deposition", Elsevier -Material Science in Semiconductor Processing, Vol. 39, pp. 686 - 690, 2015, ISSN: 1369-8001
- C Selvakumar, T.Venkatachalam & E.Ranjithkumar, "Preparation, Characterization and Ab-Initio Study of CdSnTe₂ Thin Films by Closed Space Sublimation Technique", Elsevier-Superlattices and Microstructures, Vol.90, pp.38-44, 2016, ISSN: 0749-6036.
- C Selvakumar, T.Venkatachalam, E.Ranjithkumar & K.Thangavel, "Study of Cd_{1-x}Sn_xTe Thin Films Prepared by Closed Space Sublimation", Journal of Advanced Physics, Vol.6, pp.235-240, 2017, ISSN:2168-1996.
- T.Mahalingam, C Selvakumar, E Ranjithkumar & T Venkatachalam, "Structural, Optical, Morphological and Thermal Properties of Tio₂-Al And Tio₂-Al₂O₃ Composite Powders by Ball Milling", Physics letters A, Vol.381, pp. 1815-1819, ISSN: 0375-9601.
- S. Kamzin, E. Ranjith Kumar, P. Ramadevi & C. Selvakumar. "The Properties of Mn–CuFe₂O₄
 Spinel Ferrite Nanoparticles Under Various Synthesis Conditions", Physics of the Solid State, Vol. 59, No. 9, pp. 1841–1851, 2017, ISSN 1063-7834.

Presentations in Conference

- Green Synthesis of Titanium Dioxide (TiO₂) Nanoparticles using Carica Papya leaves, CSIR Sponsored Two day National Conference on Flexible Energy Storage Devices Using Nanomaterials, Hindusthan Institute of Technology, 12-13, Feb-2020
- Synthesis of TiO₂ Nanoparticles using Cucumis dispaseus, CSIR Sponsored Two day National Conference on Flexible Energy Storage Devices Using Nanomaterials, Hindusthan Istitute of Technology, 12-13, Feb-2020

- Synthesis of CuO using Auto Combustion Method, CSIR Sponsored Two day National Conference on Flexible Energy Storage Devices Using Nanomaterials, Hindusthan Istitute of Technology, 12-13, Feb-2020
- Eco Friendly Solar Cooker, SERB Sponsored National Conference on Advanced materials in Waste management (NCAMWM-2019), Dr.N.G.P.Institute of Technology, Coimbatore – 641048. 8-Feb 2019.
- Coating and Analysis of Cd_xSn_{3-x}Te₃ Thin films, National Conference on Advanced Functional materials and their Applications in Engineering (NCAFMAE 2017), Dr N.G.P.Institute of Technology, Coimbatore 641048. 25-Jan-17.
- Structural Morphological Dielectric and Mossbauer Study of Manganese Substitute CuFe₂O₄ Nanoparticles, International Conference on Renewable Energy and Environment (ICREE-2016), Sri Ramakrishna Mission Vidyalaya College of Arts and Science (Autonomous), Coimbatore 641 020, 15-Dec-16 to 16- Dec-16
- Deposition of Cd_{1-x}Sn_xTe thin films by Closed Space Sublimation, International Conference on Recent Trends in materials Science and Applications (ICRTMSA-2016), Jamal Mohamed College, Tiruchirapalli, 29 -Feb-16.
- Investigation of CdSnTe₂ Thin Films Prepared by CSD, International conference on nanomaterials for Frontier Applications, Coimbatore Institute of Technology, Coimbatore, 2-Dec-15 to 4- Dec-15.

Participation in Conference

International:

International Conference on Nano Materials For Frontier Applications and Indo Norwegian
Workshop on Advanced Materials for Solar Cell Applications at Coimbatore Institute of
Technology, Coimbatore-14, on 10-Jul-13 to 12-Jul-13.

National:

- 19th Tn & P Iste Annual Convention for Faculty Members of Engineering Colleges 2016, Dr.N.G.P.Institute of Technology on 02-Dec-16 to 03- Dec-16.
- National Conference on Advanced Functional Materials and their Applications in Engineering-(NCAFMAE 2017), Dr.N.G.P.Institute of Technology, Coimbatore-48 on 25-Jan-17.

Participation in Seminars

- National level seminar on "Quality Research in Teacher Education, Sri Ramakrishna Mission Vidyalaya College of Education, Coimbatore from 19-Mar-04 to 21-Mar-04.
- National Seminar on Learning Difficulties and Instructional Strategies, Sri Ramakrishna Mission Vidyalaya College of Education, Coimbatore-20 on 16-Dec-05 to 17- Dec-05.
- One-Day Symposium on Value Based Education for Teacher Educators and Tecacher, Karpagam college of Education, Eachnari, Coimbatore on 16 -Sep-06.
- 1) One Day State Level Seminar on Information Communication Technology in Teacher Education, Dr N.G.P.College of Education, Coimbatore-35 on 17-Dec-06.
- 2) UGC Sponsored National Seminar on "Multiple Intelligence and Instructional Technology-The Praxis of Teaching And Learning, Ramakrishna Mission Vidyalaya College of Education, Coimbatore-20 on 11-Jan-2008 and 12 -Jan 08.
- 3) One Day State Level Seminar on Total Quality Management in Teacher Educatio, Dr N G P College of Education on 14⁻Dec-08.
- 4) CSIR Sponsored One Day National Seminar on Recent Trends and Development in the Emerging Field of New Transparent Conductors and Device Applications, Kongu Engineering College, Perundurai on 19-Jun-12.

Participation in Workshop

- DST-DAAD Sponsored International workshop on Healthy Risk Assessment of Nanoparticles, Dr.N.G.P.Arts and Science College, 05-07 December, 2018.
- One Day Pre Conference Workshop at the International Conference on Nano Science and Nano Technology (ICNN), Coimbatore Institute of Technology, Coimbatore-14 on 05-Jul-11.
- One Day National Workshop on Emerging Research Trends in Thin Film and Nanotechnology, Government College of Technology, Coimbatore -13 on 03 -Oct-09.

Participation in Orientation Programme / Short Term Courses

- Orientation Programme for Teacher Educators of New College of Education, Government College of Education for Women, Coimbatore. on 25th 26th Jul-2006.
- Intel Teach Program-Essentials Course-Master Trainer, Dr N.G.P.College of Education, Coimbatore -35, from 25th Feb 01st Mar- 2008.
- Bridge Courses on Physics, Anna University, Chennai. on 20th Jun 21st Jun-2014.
- One Week Short Term Course Under Quality Improvement Programme on Advances in New Engineering Materials, Coimbatore Institute of Technology, Coimbatore. from 23rd -29th Nov-2015.

Participation in Faculty Development Programme

- **Seven-day online faculty programme on** Research methodology and pedagogy for tertiary education, Dr. N.G.P. Arts and Science College, Coimbatore, 15-21, June-21.
- **FDP on** Quality intiatives in higher education, Dr. N.G.P. Arts and Science College, Coimbatore, 13-Apr20 to 20-Apr-20.
- **Seven-day faculty programme on** NAAC revised accreditation framework & OBE assessment methodology, Dr. N.G.P. Arts and Science College, Coimbatore, 27-May-19 to 2-June-19.
- **FDP** on Quality initiatives in higher education, Dr. N.G.P. Arts and Science College, Coimbatore, 3- Dec-18 to 9-Dec-18.
- TEQUIP II Sponsored Faculty Development Program on Computational Material Science and Experimental Techniques, P.S.G College of Technology, Coimbatore. from 03rd -10th Aug-2013.
- FDP Program on Teacher Surpasses: Reinventing Classroom Dynamics Towards Enhancing Learner Autonomy, Dr.N.G.P.Institute of Technology, Coimbatore. on 22nd Jul-2011.
- One Day Faculty Development Programme, Dr.N.G.P.Institute of Technology, Coimbatore. on 27th Sep-2008.

Conference / Seminar / Workshop Organized

- Convener, E Workshop on "Phase Identification of Polycrystalline materials using XRD data in Softwares" at Dr. N.G.P Arts and Science College, Coimbatore on Sep. 25, 2021.
- Convener, E Workshop on "Introduction to ORIGIN and Basic Plotting" at Dr. N.G.P Arts and Science College, Coimbatore on December 26, 2020.
- Convener, Two-day National Workshop on Nano Characterization and Applications of Biosensor, Dr. N.G.P. Arts and Science College, Coimbatore, 20&21- Feb.-20.
- Convener, Intercollegiate meet "Spectra " 20", Department of Physics, Dr.N.G.P.Arts and Science College, 27, Feb 2020.
- Convener, National Conference on Recent Trends in Basic and Applied Sciences, Dr.N.G.P. Arts and Science College, 02-03, Mar-2020.
- Convener, National Workshop on Nano characterizations and Applications of Biosensor,
 Dr.N.G.P. Arts and Science College, 20-21, Feb-2020

 Programme Committee Coordinator, INTERNATIONAL WORKSHOP CONFERENCE ON COMPUTER COMMUNICATION AND INFORMATION TECHNOLOGY, Dr. N.G.P. Arts and Science College, Coimbatore, 28-Sep-2016.

Invited Speaker / Session Chair / Member Organizing Committee - Conference / Seminar / Workshop

- Judge Intercollegiate meet "Spectra " 20", Department of Physics, Dr.N.G.P.Arts and Science College, 27, Feb 2020.
- Member-Organizing Committee: Webinar on Detrimental effects of Microplastics on the Environment, Dr.N.G.P.Arts and Science College, 10, June-21. Resource person: Dr M Reema Kumari, Assistant Professor, Department of Botany, Maharani Lxmi Ammanni College for women, Bengaluru
- Member-Organizing Committee: Webinar on Sun and its Activity, Dr.N.G.P.Arts and Science College, 09, June-21. Resource person: Dr A Shanmugaraju, Assistant Professor, Department of Physics, Arul Anandhar College, Madurai.
- Member-Organizing Committee: Webinar on Future Trends and opportunities in Energy Sector, Dr.N.G.P.Arts and Science College, 08, June-21. Resource person: Dr T Elangovan, Assistant Professor, Department of Energy Studies, Periyar University.
- Member-Organizing Committee: Webinar on Surface Enhanced Raman Spectroscopy Basic Principle and Applications, Dr.N.G.P.Arts and Science College, 07, June-21. Resource person: Dr naidu Dhanpal Jayaram, Assistant Professor, Department of Physics, Kalasalingam Academy of Research and Education.
- Member-Organizing Committee: Webinar on Energy and Environment, Dr.N.G.P.Arts and Science College, 07, June-21. Resource person: Dr M Sundararajan, Assistant Professor, Department of Physics, Paavendeer College of arts and Science, Salem.
- Member-Organizing Committee: Webinar on Revisiting Thermodynamics, Dr.N.G.P.Arts and Science College, 05th, June-21. Resource person: Dr M Ponmurugan, Assistant Professor, School of Basic and Applied Science, Central University of Tamilnadu.

- Member-Organizing Committee: Webinar on Materials for modern Application, Dr.N.G.P.Arts and Science College, 05th, June-21. Resource person: Dr K Sakthipandi, Associate and Dean, Research, SRM Deemed University, Trichy.
- Member-Organizing Committee: Webinar on Optimization of small molecules for therapeutics in drug delivery, Dr.N.G.P.Arts and Science College, 04th, June-21. Resource person: Dr Vennila K N, Senior Research Associate, Department of Chemistry, Gandhigram Rural Institute, Dindigul.
- Member-Organizing Committee: Webinar on Nanotechnology in Everyday life, Dr.N.G.P.Arts and Science College, 02nd, June-21. Resource person: Dr N Rajamanickam, NIMS Researcher, Research Centre for magnetic and spintronic materials, Japan.
- Member-Organizing Committee: Webinar on Overviews on Carbanaceous Nanocomposites for fuel cell fabrication, Dr.N.G.P.Arts and Science College, on 31st, May-21. Resource person: Dr T A Revathy, assistant Profesor, Department of Physics, Velammal Engineering College.
- Member-Organizing Committee: Webinar on Thin film Solar Cells: Ovedrview of absorber materials and Characterization tools, Dr.N.G.P.Arts and Science College, on 29th, May-21.
 Resource person: Dr T Malar, Assistant Profesor, Department of Physics, SRM Research Institute, SRM Institute of Science and Technology, Chennai.
- Member-Organizing Committee: Webinar on Awareness of Device single quality crystals for applications: From small size to large size, Dr.N.G.P.Arts and Science College, on 27th, May-21.
 Resource person: Dr T Muthu Senthil Pandian, Research Scientist, SSN research centre, SSN Institutions Chennai.
- Expert Committee Member Staff Recruitment-Physics, The N.G.P.School, Coimbatore 35, 06th Jan- 19.
- Event Judge, IYPT-Science Exhibition- The NGP School-August 22-2019.
- Member Academic Council-Dr.N.G.P. Arts and Science College, Since 2018
- Chairman-Central Valuation-Physics and Medical Physics Board, DR N.G.P.Arts and Science College, Since 2018.

- Chief Guest-, Science Club Inaugural Function, Dr N.G.P.College of Education, Coimbatore. 19th Nov-18.
- NBA Coordinator-Science and Humanities, Dr N.G.P.Institute of Technology, Coimbatore. 2016-17.
- Academic Coordinator (Science and Humanitiesr), Dr N.G.P.Institute of Technology,
 Coimbatore, 2015-17.
- Management Representative-ISO 9001:2008, Dr N.G.P.Institute of Technology, Coimbatore. 2012-13.
- Coordinator-I- Year B.E/B.Tech, Dr N.G.P.Institute of Technology, Coimbatore. 2011-12.
- Deputy Management Representative-ISO 9001:2008, Dr N.G.P.Institute of Technology, Coimbatore-48, 2011-12.
- Coordinator Annual day, Dr N.G.P.Institute of Technology, Coimbatore 48, March 2010 and 2011.
- Examination Management System –Coordinator, Dr N.G.P.Institute of Technology, Coimbatore-48, 03rd Jun-09 to 04th Aug-2011.
- Programme Coordinator (Sastra University B.Ed study centre), Dr.N.G.P.College of Education, Coimbatore-35, 2008.
- Programme Coordinator (Tamilnadu Open University B.Ed study centre), Dr.N.G.P.College of Education, Coimbatore -35, 2007.
- Additional Chief Superintendent, B.Ed Course Regular Examinations (Tamilnadu Teacher Education University), Dr N.G.P. Arts and Science College, Coimbatore-48, Mar/Apr 2009.
- Chief Superintendent, B.Ed Term End Examinations (Tamilnadu Open University), Dr.N.G.P.College of Education, Coimbatore-35, July/Aug-2007.
- Chief Superintendent, B.Ed Entrance Examinations (TamilNadu Open University), Dr.N.G.P.College of Education, Coimbatore 35, 28th Jan-2007.
- Chief Superintendent, B.Ed Entrance Examinations (TamilNadu Open University), Dr.N.G.P College of Education, Coimbatore, 12th Nov-2006.
- Governing Council Member, Dr.N.G.P.College of Education, Coimbatore-35, 2007-08

• Senate Member, Bharathiar University, Coimbatore, 3 years from 23.11.2005

Member in BoS (Board of Studies)

- Member, Board of Studies, Department of Physics, Dr.N.G.P.arts and Science College, Coimbatore from 28.06.2021 for three years.
- Special Invitee, Board of Physics. Gobi Arts and science College, Gobichetipalayam. 28, June 21.
- Special Invitee, Board of Physics, Gobi Arts and Science College, Gobichettipalayam, Mar-2020.
- Chairman, Board of Medical Physics, Dr N.G.P Arts and Science College, Coimbatore, Dec-2018, April -2019, Dec-2019.
- Chairman, Board of Physics, Dr N.G.P Arts and Science College, Coimbatore, Since Dec-2018

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
The Indian Society for Technical Education (LM 11785)	Life-time	-

Awards / Honors

Awards / Honors	Agency / Institute	Year of Award
Best Research oriented	Dr.N.G.P.Arts and Science	2021-22
Department -Physics	College, Coimbatore	
Best Department -Physics	Dr.N.G.P.Arts and Science	2019-20
	College, Coimbatore	