



Dr. NITHYA PREM S R

PDF (ICSSR), Ph. D (Education), UGC-NET with JRF, UGC-SRF, M.Ed. (Physical Science), M.Sc. (Physics)
Assistant professor

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SCHOLASTIC RECORDS

Educational Qualifications	Board of Examinations	Year	Division
Post-doctoral Fellow	ICSSR, New Delhi	2021	Awarded
Ph. D Education	University of Kerala, Thiruvananthapuram.	2018	Awarded
NET with JRF and SRF	UGC, New Delhi	2009	Awarded
M.Ed. Physical Science	MG University, Kottayam	2007	I
B.Ed. Physical Science	University of Kerala, Thiruvananthapuram.	2005	I
MSc Physics	University of Kerala, Thiruvananthapuram.	2003	I
BSc Physics	University of Kerala, Thiruvananthapuram.	2001	I

PATENT

- Title of the Invention CHALLENGES OF CURRICULUM DESIGN AND EVALUATION

AWARDS AND ACHIEVEMENTS

- International Scientific Women Researcher Award in March 2025 from scientific Laurels Committee, India.
- Young Woman Researcher award in Education from Venus International Foundation Estd. u/s 3 of the Indian Trusts Act, 1882 ISO 9001:2008 Certified Dated – 4th March 2023
- Savitri Bai Phule National Fellowship Award from Bhartiya Dalit Sahitya Academy, New Delhi. 2021.
- Young Women Scientist Award from Department of Education, University of Kerala, 2020.

RESEARCH EXPERIENCE

- Post-doctoral Fellow from ICSSR, New Delhi for the period of 2 years (2019-2021)

PROFESSIONAL EXPERIENCE

- Assistant Professor, Department of Education, Central University of Rajasthan, India from June 2022 onwards.
- Worked as Assistant Professor of Education in Fathima Memorial Training College, Pallimukku, Kollam, Kerala, India from December 2021 to May 2022.
- Worked as Assistant Professor of Education in Karmela Rani Training College, Kollam, Kerala, India from November 2019 to December 2019
- Worked as Assistant Professor of Education in Metca College of Teacher Education, Chavarcod, Palayamkundu P O, Thiruvananthapuram, Kerala, India from November 2007 to January 2012
- Worked as Assistant Professor of Education in KTCT College Of Teacher Education, Kaduvail, Thottakadu P O, Thiruvananthapuram, Kerala, India from March 2007 to Jun 2007.

PARTICIPATED IN FACULTY DEVELOPMENT PROGRAMME

- International Online Faculty Development Programme from 05 to 09 June 2023 organised by Dr. M.G.R. Educational and Research Institute, Faculty of Education and Academic Staff College, Chennai.
- UGC sponsored online faculty induction programme from 4th July to 2nd August 2023 organised by UGC

HumanResource Development Centre. Jamia Milla Islamia, New Delhi.

- Research Methodology and Ethics in Research Publications from 29.07.2024 to 02.08.2024. organized by CURAJ in association with NITTTR, Bhopal.
- Soft Skills & Holistic Development from 05.05.2025 to 09.05.2025 organised by CURAJ in association with NITTTR, Bhopal
- Strategic Planning and Curriculum Alignment for Enhancing Teaching and Learning to Achieve SDG4 – Quality Education from 09.06.2025 to 13.06.2025 organized by Tamil Nadu Teachers Education University.
- Six days online Interdisciplinary Faculty Development Programme on innovative Practices in Higher Education and Research in collaboration with AMU Malappuram Centre, (KERALA) from 02 to 07 January 2023 organized by the UGC Human Resource Development Centre, Aligarh Muslim University.
- Professional Development Programme (PDP) on National Education Policy-2020, jointly offered by IGNOU and UGC.

CURRICULUM DESIGN:

- Scientific communication and Technical writings – 4 credits
- Sustainability in waste management - 4 credits
- Pedagogy of Physics (Revised) – 4 credits
- Educational Communication Technology-4 credits

PUBLICATIONS

- ICT Based Strategy is Effective for Developing Critical Thinking Skills in Physics at Higher Secondary Level. International Journal for Multidisciplinary Research (IJFMR), E-ISSN: 2582-2160, Volume 8, Issue 3, May-June 2026.

- A Problem-Solving Teaching Approach for Enhancing Integrated Process Skills at Secondary level. journal of novel research and innovative development | JNRID. ISSN 2984-8687 |Volume 4, Issue 7© July 2026.
- Dr. Nithya Prem. S.R. & Shalini (2026). A Case Study of Gurukul Indraprastha: The Traditional Education System in the Present Era. International Journal of Research and Innovation in Social Science (IJRISS), Volume X, Issue II, February 2026. ISSN: 24546186.
- DOI: <https://dx.doi.org/10.47772/IJRISS.2026.10200564>.
- New frontiers in multidisciplinary Research and Innovations. Book (Chief editor) , by International Publisher, Walnut publications.UK. 2025.
- Effectiveness of the Guided Discovery Method in Enhancing Critical Thinking Skills in Physics at the Higher Secondary Level (Web of Science journal of Eksplorium ISSN 2503-426X, Page No: 708–715, Vol 46 Issue No. 2, June 2025.
- Shalini & Dr. Nithya Prem. S.R. (2025). An Analytical Overview of the Evolution of the Gurukul Education System from the Vedic Era to Contemporary Frameworks. Business, Management and Economics Engineering, Volume 23, Issue 01, 2025. ISSN: 2669-2481; e-ISSN: 2669-249X (Q2 Scopus Indexed Journal).
- 2025 – Participated in an Online Training organized by Springer Nature on 19 March 2025, held at the Central Library, CURAJ.
- 2025 – Attended a Comprehensive Online Training on 'Understanding Research Matrix: Essential Tools for Academic Excellence', organized by Springer Nature in June 2025.
- “Vartman Samay Mein Prachin Shiksha Paddti Ka Mahatva Avm Uske Punardhar Ki Avashyakta” in the National Seminar on “National Education Policy, 2020 and Reinvigorating Early Childhood Care and Education,” sponsored by ICCSR and organized by Digboi Mahila Mahavidyalaya, Digboi, Assam, on 10th and 11th February 2024.(book chapter)
- Stem Pedagogy-based learning activities in Physics for enhancing interdisciplinary Approach at the Secondary level. African Journal of Biological Science, (Scopus Indexed) ISSN 2663-2187, Page No:4339-

- Dr. Nithya Prem. S.R. & Shalini (2024). The Gurukul Education System: A Pivotal Role in Addressing the Prevalent Challenges in Contemporary Society. Vishveshvaran and Indological Journal, Volume LXI–LXII. ISSN: 0507-1410 (UGC CARE Listed International Peer-Reviewed Refereed Research Journal).
- Dr. Nithya Prem. S.R. & Shalini (2024). Gurukul Arya Nagar Sanskrit Vidyapeeth Paramparagat Avm Aadhunik Shiksha Ka Samnvay: Ek Case Adhyayan. Journal of Foundational Research, Volume XXXII, No. 1(I), January–June 2024, p. 93. ISSN: 2395-5635.
- Problem-Solving Templates in Physics for Nurturing the Skill of Evaluation in Critical Thinking Skills, in Scopus Indexed journal of European Chemical Bulletin ISSN 2063-5346, Page No: 1743-1751 Vol 12, Special Issue 04, April 2023.
- Book Name: Transforming Teacher Education in the Light of Policy Perspectives. Chapter Name: Theoretical Overview of STEM Pedagogy. Naaman Publications 2025, Pvt.Ltd.(ISBN: 978-81-985215-7-6).
- National education policy,2020 and reinvigorating early childhood care and education, Chapter 47, Vartman Samay Mein Prachin Gurukul Shiksha paddti ka mahatva avm Uske punaruthar ki avashyakta. Sunbeam publications, Pvt.Ltd. 2024.
- Book Name: climate action through climate change education. Chapter Name: Environmental Sustainability and Climate Change in Education. Pravada Books, kollam Publications 2023.
- Book Name: Eduction Reflections on 21st century classroom. (editor) New Man Publication 66 Ramdasnagar Parbhani-431401.
- Book Name: Cognition and Related Psychology 21st century learners. Chapter Name: Competence in Problem Solving.
- Book Name: Psychosocial perspectives in literature, Media and Culture. Chapter Name: The impact of mass media on the socio-cultural life.
- Role of women Entrepreneurship in INDIA, in Scopus Indexed journal of *Positive School Psychology* ISSN 2717-7564, Page No: 257-260 Vol 6 Issue 04, 2022.

- Developing the Skill of Defining Operationally Through Problem Solving Model for Enhancing Integrated Process Skill in Physics at Higher Secondary, in Scopus Indexed and Web of Science journal of *International Journal of Early Childhood Special Education (INT-JECS)*, ISSN: 1308-5581 Page No 488- 493, Vol 14, Issue 03, 2022.
- Integrated Process Skills Fostering a Cognitive Variable for Problem Solving in Physics Teaching at Secondary Level, in Scopus Indexed journal of *International Journal of Psychosocial Rehabilitation* ISSN 1475-7192, Page No: 17893- 17903 Vol 24, Issue 06, 2020.
- Problem-Solving Model Strategies for Enhancing Integrated Process Skills Among Secondary Level, in Scopus Indexed journal of *Critical Reviews*, ISSN 2394-5125 Page No –2808- 2813 Vol 7, Issue 15, 2020.
- Strategies based on ICT Problem-solving model for Enhancing integrated process skills in Physics at the Higher Secondary level, in Scopus Indexed journal of *Critical Reviews* ISSN 2394-5125 Page No – 3257- 3262 Vol 7, Issue 09, 2020.
- Guided Discovery Method is Effective for Developing Critical Thinking Skills in Physics at Secondary Level, in Scopus Indexed journal of *Pal arch's Journal of Archaeology of Egypt/Egyptology* ISSN 1567-214x Page No: 9140- 9148, Vol 17 (7), 2020.
- Cognitive Rehabilitation and Problem-Solving Among Secondary School Students of Kerala, in Scopus Indexed journal of *Turkish Journal of Physiotherapy and Rehabilitation*, ISSN 2651-4451 Page No: 853 - 856 Vol 32, Issue 02, 2021.
- Effectiveness Of Information Gathering of Critical Thinking Skills and Guided Discovery Method in Physics at Secondary Level, in Scopus Indexed journal of *Ilkogretim Online - Elementary Education Online*, ISSN 1305-3515, Page No: 4828-4833, Vol 20, Issue 05, 2021.
- Teaching And Learning of Physics Using Technology for Enhancing Problem Solving Model at High School Students, in Scopus Indexed journal *Turkish Online Journal of Qualitative Inquiry (TOJQI)*, ISSN 1309-6591, Page No: 5430-5440 Vol 12, Issue 03, 2021.

- Study on Critical Thinking Skills of Inference and Guided Discovery Model, in UGC Care Listed journal of *Kala: The Journal of Indian Art History Congress*, ISSN 0975-7945, Page No: 58-63 vol 26, No.2 (XX): 2020-2021.
- Integrated Process Skills in Physics at Secondary School Students of Kerala, in UGC Care Listed journal of *Sambodhi* ISSN 2249-6661 Page No: 187- 195 Vol- 44, Number 1, 2021.
- Study on Critical Thinking Skill of Interpretation and Guided Discovery Method, in UGC Care Listed journal of *The Journal of Oriental Research Madras*, ISSN 0022-3301, Page No:29-37, Vol- 42 (3) March 2021
- Relationship between Critical Thinking Skill of Analysis and Guided Discovery Method in Physics at Higher Secondary School Students of Kerala, in UGC Care Listed journal of *Vidyabharati International Interdisciplinary Research Journal (Special Issue)* ISSN 2319- 4979, Page No: 3788- 3794 Vol- 2021 Special Issue on “Engineering Technologies and Management” Part 25.
- Dr. Nithya Prem S. R. & Prof. (Dr.) Bindu. R., ICT Based Problem Solving Model in Developing Identifying and Controlling Variables for Enhancing Integrated Process Skills in Physics at Higher Secondary Level, in UGC Care Listed journal of *Education: Rabindra Bharati University*, ISSN 0972-7175, Page No: 102-109, Vol- XXIV (10).
- Dr. Nithya Prem S. R. & Prof. (Dr.) Bindu. R.L, Problem Solving Model for Nurturing Integrated Process Skills in Physics at the Higher Secondary Schools of Kerala, in UGC Care Listed journal of *Bengal*, past & present: journal of the *Calcutta Historical Society*, ISSN 0005-8807, Page No: 28- 31 Vol.139, (IV) July – December 2021.
- Problem Solving Model in Developing the skill of Defining Operationally for Enhancing Integrated Process Skills in Physics at Secondary level, *International Journal of Emerging Technologies and Innovative Research (JETIR)*, ISSN 2349- 5162, Page No: 678-685, Vol. 5, Issue 12, December 2018.
- Developing a Problem-Solving Model for Enhancing Integrated Process Skills of Formulating Hypotheses in

Physics at Secondary Schools of Kerala. International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P-2349-5138, Page No: 465-471, Vol.5, Issue 3, September 2018.

- Integrated Process Skills and Problem-Solving among Secondary School students of Kerala, Psycho-Lingua Association of India, ISSN 0377-3132, Page No: 166-170, Vol.48 (2), July 2018.
- Problem Solving Model Based on Physics Activities, (2019) Meena Book Publications New Delhi (India) ISBN: 978-93-85957-32-1.
- Educational Reflections on 21st Century Class Room, Edited BOOK (2020), New Man Publications ISBN: 978-81-947349-9-4.
- The Impact of Mass Media on the Socio-Cultural Life, Psychosocial Perspectives in Literature, Media and Culture (2021), Authors Press, New Delhi ISBN: 978-93-90588-67-1, Page no: 85-91.
- Competence in Problem Solving, Cognition and Related Psychology of 21st Century Learners (2020), A.P.H. Publishing Corporation, ISBN: 978-93-89875-17-1, Page no: 145-157.
- Problem Solving Model for Enhancing Integrated Process skill of Identifying and Controlling variables in Physics at the secondary level, Research Trends in Undergraduate Courses (2018) Department of Education, University of Kerala, ISBN: 978-93- 5346-705-0, Page no: 80-87.

PAPER PRESENTATIONS/INVITED LECTURES/RESOURCE PERSON/REFRESHER COURSE

- “21st century skills in Physical Science Education: Teacher’s competencies, Learner’s readiness and classroom practices” in two-day international conference on “Redefining Teacher Education and Pedagogy for nation building in the AI Era. Organized by IQAC and Buddha college of Teacher Education, Alappuzha (dist.), Kerala on 12 th to 13 th March 2026.
- “21st-Century Skills for Physical Science Teaching” at a session organized by M.I.Training College, recognized by NCTE and affiliated with the University of Calicut, Pudukkottai, Tamil Nadu, on 25 November 2025. (Invited Lecture).

- NEP 2020 Emphasizes STEM Education” at a session organized by Al shifa college of arts & science (affiliated to university of Calicut) Keezhattur, Poonthavanam PO, Malappuram, Kerala – 679325 on 8/04/2025. (Invited Lecture).
- ITEP issues and Challenges at a session organized by University of Kerala in Heights 2023-KU Researchers Fest held at the kariavattom campus on 19th and 20th June 2023. (Resource Person).
- Methods and Tools of Educational Research on the invited lecture session organized by the Research wing, Govt. College of Teacher Education, Thiruvananthapuram, Kerala, India dated on 16/06/2023. (Invited Lecture).
- International Education conference on foregrounding Teacher Education in the light of Policy Perspectives organized by department of Educational Studies, Jamia Millia Islamia, New Delhi (DES-IEC-2025) 12th to 13th Feb.2025.Paper Presented -Topic Theoretical Overview of stem pedagogy.
- Soft Skills & Holistic Development on 05.05.2025 – 09.05.2025 organized by CURAJ association with NITTTR, Bhopal.
- Strategic Planning and Curriculum Alignment for Enhancing Teaching and Learning to Achieve SDG4 – Quality Education on 09.06.2025 to 13.06.2025 organized by Tamil Nadu Teachers Education University.
- Research Methodology and Ethics in Research Publications on 29.07.2024 – 02.08.2024 organized by CURAJ association with NITTTR, Bhopal.
- UGC Approved Short-term Professional Development programme. On 7 to 15 October 2022, organized by IGNOU, Staff Training and Research Institute of Distance Education.
- International Online Faculty Development programme on 05 to 09 June 2023organised by Dr. M.G.R. Educational and Research Institute, Faculty of Education and Academic Staff College, Chennai.
- Online Interdisciplinary Faculty Development Programme on 02 to 07 January 2023 organised by UGC Human Resource Development Centre, Aligarh Muslim University.
- UGC sponsored online faculty induction programme on 4th July to 2nd August 2023 organised by UGC Human Resource Development Centre. Jamia Milla Islamia, New Delhi.

- Presented a paper titled “Conscientization of Nurturing Integrated process skills through Problem- solving model among higher secondary school students” in the International Seminar on Education of Conscientization: Emerging Global Trends & 18th Annual Convention of CTEF, Kerala State Centre organized by NSS Training College Ottappalam, Palakkad, Kerala, India from 27th to 29th February 2020.
- Presented a paper titled “Nurturing Integrated process skills through Problem-solving model” in the International 2nd Conference on Educational Technology, SIET, Kerala in association with Dept. of Education, University of Kerala, Thiruvananthapuram, Kerala, India from 1st to 2nd January 2020.
- Presented a paper titled “Problem-solving model in Developing the skill of experimenting for enhancing integrated process skill in physics at secondary level” in the International Conference and XVII Annual Convention of Council for Teacher Education CTE, Kerala organized by , Mount Tabor Training College, Pathanapuram P.O, Kollam, Kerala, India from 17th to 19th January 2019.
- Presented a paper titled “Make in India: Science and Technology” in the National Science Day Celebrations - 2016 State level Seminar on Make in India: S & T Driven Innovations organized byHKM College of Education Umayanalloor, Kollam Kerala, India on 27th February 2016.
- Presented a paper titled “Strategies based on ICT for Enhancing Science Process Skills and Problem- Solving in Physics at Secondary Level” in the UGC-sponsored national seminar on Techno-Pedagogy and Knowledge Management: The Transitional Gateway of Digital Instructional Space, hosted and organized by IQAC of Govt. College of Teacher Education, Thycaud, Thiruvananthapuram, Kerala, India from 18th to 19th March 2016.
- Presented a paper titled “Developing a Problem-Solving Model for Enhancing Integrated Process Skills in Physics at the Secondary Level” in the Research Colloquium organized by Government College of Teacher Education, Thycaud, Thiruvananthapuram, Kerala, India on 15th July 2014.
- Presented a paper titled “Gandhian thoughts on present era” in the National Conference on Trends & Innovations in Gandhian Thought organized by the Institute of Gandhian Thought Research and Action (IGTRA) under the age of Kerala Gandhi Smarak Nidhi Thycaud, Thiruvananthapuram-695014 from 12th to 13th December 2014.

- Presented a paper titled “Strategies for improving integrated Science process skills among Secondary School Students of Kerala” in The NACC Sponsored National Seminar on Best Practices in Education For 21st Century hosted and organized by Fathima Memorial Training College Pallimukku, Vadakkevila P.O., Kollam -10, Kerala, India from 10th to 11th December 2013.
- Presented a paper titled “Problem Solving Model of Teaching Physics” in the international seminar on innovations, quality, and excellence in education organized by Fathima Memorial Training College, Pallimukku, Kollam, Kerala, India from 11th to 12th January 2013.
- Presented a paper titled “A great visionary educationist of Indians approaches to various strategies based on problem-solving method” in the UGC-sponsored national seminar on Mahatma Madan Mohan Malaviya: A Great Visionary Educationist of India hosted and organized by the Department of Education, University of Kerala, Thiruvananthapuram, Kerala, India from 19th to 20th December 2012.
- Presented a paper titled “Gandhian Educational Principles and Practices in Problem Solving Methods” in the international seminar on Gandhian Educational Principles and Practices in the emerging global scenario organized by Kerala Gandhi Smarak Nidhi, Thiruvananthapuram, Kerala, India from 25th to 27th July 2012.
- Presented a paper titled “Constructivist problem-based learning on the achievement of Physics students with low ability levels” in the International Education meet on Education for Global Excellence organized by Mar Theophilus Training College and Council for Teacher Education, in collaboration with the Association of International Researchers of Indian Origin (AIRIO), the USA at Mar Theophilus Training College, Mar Ivancho's Vidyanagar, Nalanchira, Thiruvananthapuram - 15, Kerala, India. from 5th to 7th January 2012.

Dr. Nithya Prem S R