**CURRICULUM VITAE**

# Divya C. Senan Ph.D.

Associate Professor, Department of Education

Honorary Director, Center for Learning Engineering **Tel: (O):** +9714712304718

& Sustainability Education(**M):** +919447552870

University of Kerala e-mail**:** mail2divyacsenan@gmail.com

Orcid id: /0000-0002-7972**-**0734  divyacsenan@keralauniversity.ac.in

**AWARDS/SPECIAL RECOGNITION/HONORS**

* + Visiting Professor, University of Southampton, UK,2024.
  + Chanakya Best Teacher Educator National Award, IITE, Govt. of Gujarat, 2021
  + Best Teacher Educator National Award, NCTE, MHRD, Govt. of India, 2020
  + Best Inspiring Teacher Educator Award, Council for Teacher Education, Kerala Chapter, 2020
  + MS 2 Level scholarship for MTech Educational Technology by NIIT University, 2020.
  + BECC Fellowship, Morris S. Smith Foundation, USA, 2019.
  + Outreach Lecturing Fund Travel Award, Institute of International Education, NY, USA, 2019.
  + Precourt Fellowship, Environmental and Energy Policy Analysis Center (SEEPAC), Precourt Institute, Stanford University, USA, 2018.

* + Outreach Lecturing Fund Travel Award Institute of International Education, NY, USA, 2018
  + Fulbright- Nehru Post-Doctoral Fellowship, 2017.
  + Session’s Best Paper Award, 20th World-Conference on Systemics, Cybernetics, and Informatics, Orlando, Florida, USA, July 5-8, 2016.
  + UGC Raman Post-Doctoral Research Fellowship for Indian Scholars in USA, 2014.
  + Silver medalist, Masters in Education, Mahatma Gandhi University, Kerala, India, 2004.
  + College Topper, Bachelor of Education, University of Kerala (2001)
  + Gold Medalist, Masters in Physics, Mahatma Gandhi University, Kerala, India (2000)

**ACADEMIC BACKGROUND**

* + **Master of Technology (MTech)** in Educational Technology from NIIT University (2020- 2023) with MS-2 level Scholarship and A grade.
  + **Post-Doctoral Fellow** (2017-18) at National Space Science Technology Centre, University of Alabama in Huntsville, Alabama, USA in Education Policy & Planning.
  + **Post-Doctoral Fellow (**2014-15) at Department of Atmospheric Science, University of Alabama in Huntsville, USA in Environmental Education.
  + **Doctor of Philosophy (PhD)** in Education from University of Kerala (2012).
  + **Master of Education (M.Ed.)** from Mahatma Gandhi University (2004) with 1st Class and **2nd Rank**.
  + **National Eligibility Test (NET)** qualified in Education from University Grants Commission (UGC) in 2003.
  + **State Eligibility Test (SET)** qualified in Physics from Directorate of Higher Secondary Education, Govt. of Kerala in 2002.
  + **Bachelor of Education (B.Ed.)** in Physical Science from University of Kerala (2002) with 1st Class and **College 1st**.
  + **Master of Science (M.Sc.)** in Physics (Non-Conventional Energy) from Mahatma Gandhi University (2000) with 1st Class and **1st Rank**.
  + **Bachelor of Science (B.Sc.)** in Physics from University of Kerala (1998) with 1st Class.

**TEACHING EXPERIENCE**

* + Associate Professor at Department of Education, University of Kerala from 2nd August 2020- till date
  + Assistant Professor at Department of Education, University of Kerala from 18th February 2017- 1st August 2020
  + Assistant Professor at Sree Narayana Training College, Nedunganda from 12th March 2007 to 17th February 2017.
  + Lecturer in Education at Mahatma Gandhi University College of Teacher Education, Kanjirapally, from 12th March 2007 to 17th February 2017.
  + Lecturer in Education at Kerala University Teacher Education Centre, Kulakkada, from 27th May 2002 to 31st October 2002.

**ADMINISTRATIVE RESPONSIBILITIES**

* + Director, Centre for Learning Engineering & Sustainability Education, University of Kerala.
  + Member, Core Committee, National Professional Standards for Teachers, NEP 2020, Govt. of India.
  + Member, Steering Committee for Teacher Education, State Curriculum Framework, Directorate of Education, Lakshadweep Administration, NEP 2020, Govt. of India.
  + State Coordinator, ‘Ek Bharat Shreshtha Bharat’ project, IITE, Gujarat
  + Member, Core Committee, Pragyatha Guidelines, CIET, Govt. of India,2022
  + Member, Core Committee, Four Year Under Graduate Prgramme, University of Kerala, 2023
  + Member, Board of Studies (Education), Manonmanian Sundaranar University, Tamil Nadu,
  + Member, Faculty of Education, University of Kerala, 2024
  + Member, Board of Studies in Education (PG), University of Kerala.
  + Member, Board of Sciences and Academy of Science, Indian Institute of Teacher Education,

Gandhinagar, Gujarat

* + Member, Academic Committee, CPFSL, Govt. of India
  + Assistant Director, Centre for Global Academics, University of Kerala, 2017-18
  + Member, IQAC, University of Kerala, 2017-18
  + Criteria Convenor, NIRF, University of Kerala,2022
  + Member, NAAC Committee, University of Kerala,2020
  + Member, Annual Report, University of Kerala, 2020
  + USIEF-Fulbright Campus Representative, University of Kerala
  + Member, Examination Reform Committee, University of Kerala,2019
  + Member, Curriculum Reform Committee University of Kerala, 2017-2022
  + Resource person for Orientation towards NEP 2020, MMTTC
  + Evaluation Expert for Fulbright Teaching Assistance Programme
  + Member, Chancellors Award Committee, University of Kerala, 2021
  + Member, NIRF Committee, University of Kerala
  + Educational Advisor and consultant, IEFAUSA, International Educational Foundation, USA
  + Educational Consultant, Nanoskool, Bangalore.

**RESEARCH PERFORMANCE AND PUBLICATION**

**International Post-Doctoral Research**

* + ***Fulbright-Nehru Post-Doctoral Fellowship*** from ***United States India Education Foundation (USIEF)*** in 2017-18 at ***National Space Science Technology Centre, University of Alabama in Huntsville, Alabama, USA***, for a period of 12 months to carry out the project titled *‘Development of a Curriculum Design Approach Using Mobile applications and Geospatial Technology to Promote Energy Literacy’*.
  + ***Raman Post-Doctoral Fellowship for Indian Scholars in USA*** from ***University Grants Commission under Obama-Singh 21st Century Knowledge Initiative (OSI)*** in 2014-15 at ***Department of Atmospheric Science, University of Alabama in Huntsville, USA***, for a period of 6 months to carry out the project titled ‘*Crowdsourcing Applications as Tools for Research and Experiential Learning in Environmental Science*’.

**Funded Research Programmes**

* Skill Training and Assessment to Empower Women for Science Careers through Innovative Gender Responsive STEM Pedagogy
  + Sanctioned Budget: Rs.13,00,000/-
  + Funded by ICSSR, Govt. of India (2024 – ongoing)
* Climate Change Research Energy Education and Training for Ecological Sustainability (CREATE)
  + In collaboration with University of Southampton (UK), Clarkson University (USA) and Mahatma Gandhi University, Kottayam.
  + Sanctioned Budget: Rs.55,02,941/-
  + Funded by SPARC, Ministry of Education, Govt. of India (2023 – ongoing)
* Classification and Prediction of Slow Learners and Advanced Learners using Artificial Intelligence
  + Sanctioned Budget: Rs.3,00,000/-
  + Funded by University of Kerala (2022 – ongoing)
* Enhancing Energy Literacy among Self-Help Groups through Effective Resilient Energy Education Programmes
  + Sanctioned Budget: Rs.1,05,000/-
  + Funded by University of Kerala (2021 – ongoing)
* Organizational Citizenship Motives and Behaviors Affect Burnout in the Teaching Profession: A Cross-Cultural Examination of Individualism–Collectivism as a Moderator
  + In collaboration with Hope College, USA.
  + Sanctioned Budget: USD 5000/-
  + Funded by Hope College, USA (2021 – ongoing)
* Educational Technology Implementation in Teaching and Learning.
  + In collaboration with Ohio University, USA.
  + Sanctioned Budget: Rs.7,63,460/-
  + Funded by Intel, Bangalore (2020 – 2021)
* Report on the Prospects of General Education Department, Govt. of Kerala
  + Sanctioned Budget: Rs.30,000/-
  + Funded by Kerala State Planning Board, Govt of Kerala (2020)
* Popularization Of Renewable Energy Resources through Effective Energy Education Programmes to improve Energy Literacy among Secondary School Students of Kerala
  + Sanctioned Budget: Rs.1,15,000/-
  + Funded by UGC-SWRO Bangalore (2013 – 2014)
* Awareness for Confronting Social Challenges of Cyber Violence and Cyber-Crimes in Coastal Areas of Kerala.
  + Sanctioned Budget: Rs.8,23,043/-
  + Funded by UGC, New Delhi (2011 – 2013)
* Design And Try-Out of a Multimedia Learning Package on ‘Health Awareness of Occupational Diseases’ for the Women at Risk Employed in Coir Retting along the Coastal Belt of Kerala.
  + Sanctioned Budget: Rs.70,000/-
  + Funded by UGC-SWRO Bangalore (2010 – 2011)
* Development of A Microprocessor based Sun-Tracking System
  + Sanctioned Budget: Rs.25,000/-
  + Funded by ANERT, Trivandrum (2000 - 2001)

**Research Supervision: Ph.D. Thesis**

* Jayapraveen J. (2017) Role of Institutional Research Culture on the Research Engagement and Quality of work life (QWL) of teachers in higher education. (Ph.D. Awarded)
* Annie Feba Varghese. (2018) Effectiveness of STEM Instructional Modules on select Energy Literacy of Elementary school students. (Ph.D. Awarded)
* Rajeswari V.S. 20170 (Development of a Discourse Based Mode of Evaluation of Learning outcomes in English of Higher Secondary school students. (Ph.D. Awarded)
* Selvamari S. (2019) Influence of Academic Buoyancy and goal orientation on problem solving and achievement in mathematics of secondary school students. (Ph.D. Awarded)
* Deepthi S. (2016) Effectiveness of a Self Regulated Learning Package in Physics for Enhancing Critical Thinking and Problem-Solving Ability Among Higher Secondary School Students. (Awaiting Open Defense)
* Santosh Kumar K.K. (2020) Development of an instructional module for enhancing teacher competencies of primary school teachers in managing intellectually challenged students in inclusive classrooms.
* Surya Surendran. (2020) Developing educational Robots to enhance problem solving skills and Scientific creativity among secondary school students.
* Ana Liliana Espitia. (2021) Influence of Cultural Values and Transformational Leadership on Organizational Citizen Ship Behaviour on High School Teachers in Colombia and India
* Rehnamol S. (2021) Evaluation of Teacher Concerns towards the Implementation of Blended Learning Approach at Higher Secondary Level in Kerala using Concern Based Adoption Model
* Pratheesh P.K. (2016) Developing an Augmented Reality based e-content in Physics for enhancing select Cognitive and Affective Capabilities among Higher Secondary School Students.
* Greeshma Raveendran (2021) Design and Development of a Pocket Glossary App on select Literary Terms for English Language Learners at Graduate Level.
* Simmi Gomez (2021) Enhancing Social Cognition and Critical Thinking skills among Secondary School Students through select cooperative Learning Strategies in a Biology classroom.

# Research Publications

***Books***

* Senan, Divya., & Gilton, Jijitha. (2023). Climate Action through Climate Change Education. Pravda Books. ISBN: 978-93-9140-792-6
* Senan, Divya & Feba Varghese, Annie (2022). Reimagining the Purpose of Energy Education Beyond Conservation. Pravda Books. ISBN:978-93-91407-19-3
* Senan, Divya & J, Jayapraveen (Eds.) (2020). Research Culture: Refinement in Quality Assurance: Lulu.com, Raleigh, USA. (ISBN: 978-1-67801-249-6).
* Senan, Divya (Eds.) (2020). Touching the Unknown: Essays on People & Society. Pravda Books. (ISBN: 978-93-89446-19-7).
* Senan, Divya (2014) Occupational Diseases and Health Awareness through Multimedia: A Case Study among Women at Risk Employed in Coir Retting in Kerala, India, Partridge Publishing, A Penguin Random House Company. (ISBN: 978-1-4828-1629-7)
* Senan, Divya. et al. (Eds.) (2013). Proceedings of the UGC sponsored National Seminar on Knowledge Management and Instructional Technology-The Praxis of Teaching & Learning: Sree Narayana Training College, Nedunganda. (ISBN: 978-81-927848-0-8)
* Senan, Divya (2013) Piaget’s Cognitive Development Model: A Study of its Effectiveness on Achievement, Lap Lambert Academic Publishing, Germany. (ISBN: 978-3-659-34615-6)
* Senan, Divya & Vilasini, Asha (2012) Science Pedagogy through Constructivist Multimedia Learning Material: Design of a Strategy, Lap Lambert Academic Publishing, Germany. (ISBN: 978-3-659-25376-8).

***Journals***

* Chandrasenan, D., Selvaraj, S., Kuleenan, R.J. (2023). Role of Value Orientation and Belief in Shaping Indian Pre-service Teachers’ Personal Norms to Address Climate Change. In: He, BJ., Jupesta, J., Pignatta, G. (eds) Resilient Horizons: Building Sustainable Environments for Climate Adaptation and Health. CCES 2022. ***Advances in Science, Technology & Innovation. Springer, Cham***. <https://doi.org/10.1007/978-3-031-46109-5_15//>
* Varghese, A.F., Chandrasenan, D. (2023). Energy Literacy Scale (ELS): Validated Survey Instrument to Measure Energy Knowledge, Attitude, and Behaviour. In: Caetano, N.S., Felgueiras, M.C. (eds) ***The 9th International Conference on Energy and Environment Research. ICEER 2022. Environmental Science and Engineering. Springer, Cham.*** <https://doi.org/10.1007/978-3-031-43559-1_75//>
* Chandrasenan, Divya, Kuleenan, Reshma, Yesodharan, Vysakh & Varghese, Annie feba (2022) Clustering and Exploring University students’ Knowledge and Attitude towards Energy Sustainability, ***Energy Reports****, Vol.8 No.3* 608-613 <https://doi.org/10.1016/j.egyr.2022.03.185>.
* Gilton, Godfray, & Chandrasenan. (2022). Decision making skills of secondary school students using “DECIDE” model. ***Gurujyothi Research and Reflections***, 16(1).
* Seenathmol, Chandrasenan, & Aneesh. (2022). Locus of control and Risk-taking Behaviour of NCC cadets: A Descriptive Correlation study. ***Gurujyothi Research and Reflections***, 16(2).
* Jayachandran., & Chandrasenan, Divya. (2021). Institutional Research Culture of Teacher Education Institutions at B.Ed. And M.Ed. Level. ***Research Demagogue***, 7(2), 28–31. <https://doi.org/10.22183/23501081>
* Varghese, & Chandrasenan. (2021). A Stem Approach to Teach Wind Power at Elementary Level. ***Research Nebula***, 10(3), 14–17. <https://doi.org/10.22183/23501081>
* Jayachandran, & Chandrasenan, Divya. (2021). Quality of Work Life in Higher Education Institutions. ***Research Tracks***, 8(2), 5–7. <https://doi.org/10.22183/23474637>
* Senan, Divya (2018). Ubiquitous Learning Applications for Environmental Education through Experiential Learning. ***Research Magma, Vol.1, No.6***, 68-74, ISSN:2456-7078.
* Senan, Divya (2017). Effect of 5E Instructional Model on Secondary level student’s academic achievement in Physics, ***Research Demagogue, Vol.4, No.1***,130-137, ISSN: 2350-1081.
* Senan, Divya (2017). Exploring Moodle’s potential in Teacher Education, ***Review of Research, Vol.7, No.2***, 75-79, ISSN: 2249894X
* Senan, Divya; Edwards, Matthew; Khan, Salam & Vilasini, Asha (2016) Effectiveness of a Constructivist Multimedia-Learning Package on Shaping and Guiding Students’ Attitudes Toward Physics, ***The Journal of Systemic, Cybernetics and Informatics (JSCI),******Vol.14, No.3***, 31-37, ISSN: 1690-4524.
* Senan, Divya (2016) Using Multimedia Instructional Design to enhance intrinsic motivation: A practical approach, ***Gurujyothi Research and Reflections, Vol.10, Issue1***, 64-67, ISSN: 0976-0865.
* Chandrasenan, Divya. "Crowdsourcing applications as tools for research and experiential learning in environmental science." ***Journal of the Alabama Academy of Science, vol. 86, no. 2***, Apr. 2015, p. 130. Gale Academic OneFile, link.gale.com/apps/doc/A441491546/AONE?u=anon~6a37e66&sid=bookmark-AONE&xid=ab11a275
* Senan, Divya & Dinakar, Pramod (2015) Energy literate Citizenry for the 21st century: A focus Group study in the Indian context, ***GCTE Journal for Research and Extension in Education, Vol 10 (1),*** ISSN: 09755144.
* Senan, Divya (2015). Why we need Energy Literacy? ***Gurujyothi Research and Reflections, Vol.8, No.2***, 6467, ISSN: 0976-0865.
* Senan, Divya (2014) Constructivist Multimedia Learning Material: A Powerful Framework for Improving Science Pedagogy, ***Gurujyothi Research and Reflections, Vol.8, No.1***, January 2014, 65-71, ISSN: 0976-0865.
* Senan, Divya (2013) Infusing BSCS 5E Instructional Model with Multimedia: A Promising Approach to Develop 21st Century Skills, ***i-manager’s Journal on School Educational Technology, Vol.9, Issue 2***, September – November 2013, 1 - 7**,** ISSN (Online): 2230 – 7133, ISSN (Print): 0973 – 2217. <https://eric.ed.gov/?id=EJ1098312>
* Senan, Divya (2013) Enhancing Educational Effectiveness in Physics through Cognitive Development Model: An Investigation in Formal Operational Stage, ***The International Journal of Engineering and Science, Vol.2, Issue 8***, August 2013, 36 - 41**,** ISSN (Online): 2319 – 1813, ISSN (Print): 2319 – 1805. <https://www.theijes.com/papers/v2-i8/Part.3/G0283036041.pdf>
* Senan, Divya (2013) Impact of Health Literacy Multimedia Package (HLMP) in Improving Awareness on JobRelated Diseases: A Case Study in Kerala, India, ***IOSR Journal of Research and Method in Education, Vol.2, Issue 5***, July - August 2013, 48-54**,** ISSN (Online): 2320 – 7388, ISSN (Print): 2320 – 737X. <https://www.iosrjournals.org/iosr-jrme/papers/Vol-2%20Issue-5/I0254854.pdf?id=6747>
* Senan, Divya (2013) Impact of ‘OPTO QUEST’ on Learner Motivation in a Constructivist Learning Environment, ***International Journal of Humanities and Social Science Invention, Vol.2, Issue 7***, July 2013, 21-28**,** ISSN (Online): 2319 – 7722, ISSN (Print): 2319 – 7714. <https://www.ijhssi.org/papers/v2(7)/Version-2/F0272021028.pdf>
* Senan, Divya (2013) An Innovative Approach for Developing Constructivist Multimedia Learning Projects: Practical, Scientific and Pedagogical Contribution, ***Journal of Knowledge, Vol.1, No.1***, August 2013, 110122, ISSN: 2321-791X.
* Senan, Divya (2010) MOODLE: An Open-Source Learning Management System, ***Gurujyothi Research and Reflections, Vol.4, No. 1***, January 2010, 73-76, ISSN: 0976-0865.
* Senan, Divya (2009) A study on Techno stress among Student–Teachers, ***Gurujyothi Research and Reflections, Vol.3, No.2***, June 2009, 48-51, ISSN: 0976-0865.
* Senan, Divya (2008) Multimedia Developer – A New Role for Teacher, ***Magazine- Sree Narayana Training College***, Nedunganda, 2008~09, 80-81.
* Senan, Divya (2008) Website Evaluation Rubric in ***Proceedings of National Seminar on Best Practices in IT-Enabled Teacher Education and Knowledge Management****,* November 2008, 138-140.

***Chapters In Edited Books***

* Varghese, A.F., & Chandrasenan. (2023). Identifying the Multidimensional Energy Literacy Levels of Elementary School Students of Kerala, India: A Measure of Knowledge, Attitude and Behaviour. In: Vermirović L.Z., (eds) Proceedings of the 8th International Conference on Science, Technology and Management in Energy. Energetics 2022. Complex System Research Centre, Niš, Serbia Mathematical Institute of the Serbian Academy of Sciences and Arts. <https://energetics.cosrec.org/wp-content/uploads/2023/07/eNergetics_2022.pdf>
* Senan, Divya, Seenath & Jayachandran, Jayapraveen (2022) Evaluation of Digital Educational Initiative During the Covid-19 Pandemic Using Concerns-Based Adoption Model. In Dhakulkar, A, & Olivier, J. NOMSA21 Open Up and Connect: Education in a Digital Era Conference Proceedings. DOI 10.5281/zenodo.7458972. <https://zenodo.org/record/7458973#.Y-xDfXZBxD8>
* Senan, Divya, Khan, Ramshad & Jayachandran, Jayapraveen (2021) Harithalayam Campus Farming Mission: A case study in Kerala, India. In Ashimaa Aboelmakarem Farag, Samaa Badawi, Gurpinder Lalli & Maya Kamareddine School Farms: Feeding and Educating Children (First Edition), Routledge Taylor & Francis. (ISBN 9781032009605). <https://doi.org/10.4324/9781003176558>
* Senan, Divya, Mammen, Jaison & Yesodharan, Vaisakh (2020) Energy Literacy of University Graduate Students: A Multidimensional Assessment in Terms of Content Knowledge, Attitude and Behavior. In Manaswita Bose & Anish Modi Proceedings of the 7th International Conference on Advances in Energy Research, Springer proceedings in Energy. Springer Nature Pte Ltd. Singapore 879 – 889. (ISBN 978-981-15-5954-9) <https://doi.org/10.1007/978-981-15-5955-6>
* Varghese, Annie Feba & Senan, Divya (2020) STEM Project based learning: An effective pedagogical innovation for enhancing learning skills. In Senan, Divya & J, Jayapraveen Research Culture: Refinement in Quality Assurance (Ist Edition, pp.1-4). Raleigh, United states, lulu.com (ISBN: 978-1-67801-249-6).
* J, Jayapraveen & Senan, Divya (2020) Institutional research culture: An Inexorable facet for quality of work life in Higher Education Institutions. In Senan, Divya & J, Jayapraveen Research Culture: Refinement in Quality Assurance (Ist Edition, pp.1-4). Raleigh, United states, lulu.com (ISBN: 978-1-67801-249-6).
* Senan, Divya (2017) Genetic Counselling among Tribal’s through E-initiatives: A suggested Model. In S.V.Sudheer, Counselling and Mentoring for the 21st Century Learners (Ist Edition,pp.92-100).Trivandrum, India: UGC-HRDC, University of Kerala.(ISBN: 978-81-000000000).
* Senan, Divya (2017) Initiatives of the Government of India for Reducing Child Mortality. In S.V.Sudheer, Millennium Development Goals: Insights and Praxis (Ist Edition,pp.92-100).Trivandrum, India: UGC-HRDC, University of Kerala.(ISBN:978-81-908006-8-6).
* Senan, Divya (2017) Crowdsoursing Mobile Apps & Geospatial Technology as Tools for Experiential Learning among Middle School Students of Alabama, USA. In S.V.Sudheer, Spectrum of Educational Initiatives (Ist Edition,pp.78-85).Trivandrum, India: UGC-HRDC, University of Kerala.(ISBN:978-81908006-5-5).
* Senan, Divya (2016) Examining Students Perception of Using Crowdsourcing Mobile App for Environmental Education and Research Experiences. In Proceedings of the 24th International Conference on Computers in Education, Taoyuan City 320, Taiwan: Asia Pacific Society for Computers in Education. (ISBN: 986-8-4735-77).
* Senan, Divya & Nair, Udaysankar (2016) Crowdsourcing based Mobile Application to Enhance Student’s Environmental Education and Research Experiences. In T.Manichander, Emerging Trends in Digital Era through Educational Technology (1st Edition, pp. 7-10), Raleigh, NC, United States: Lulu Publication. (ISBN: 978-1-365-18260-0).
* Senan, Divya (2013) Assuring the Quality of Multimedia Learning Packages: A New Approach. In Ganesh Punlikrao Khandare, T.Manichander & M.Brindhamani, Quality Implementation and Improvisation in Teacher Education (1st Edition, pp.194-197), Maharashtra, India: Laxmi Book Publication. (ISBN: 97881-925596-5-0).
* Senan, Divya (2013) Empowering the Coir retting Women along the coastal belt of Kerala using a Mult imedia Package on Health Awareness. In Jayanta Mete & Ajit Mondal, Emerging Issues on Women Empowerment (1st Edition, pp.344-350). Delhi, India: Kunal Books. (ISBN: 978-93-82420-20-0).
* Senan, Divya (2010) Attitude of Student –Teachers towards Moodle. In Proceedings of International Conference on e-Resources in Higher Education Issues, Development, Opportunities and Challenges, 137-139, Bharathidasan University, ISBN: 978-81-908078-9-0 <http://hdl.handle.net/123456789/1472>

**INVITED INTERNATIONAL DELIBERATIONS AND PRESENTATIONS**

* + Invited Focus Group discussion on Energy concepts through STEM Education at the STEM Education Laboratory, College of Education, Florida Atlantic University, USA on January 2019.
  + Invited for talk at Seminar series on ‘Synergetic Use of Crowdsourcing for Environmental Science Research, Applications and Education’ at Clarkson University, Potsdam, NY, USA, January 2019.
  + Invited Focus Group discussion on Energy Literacy and Energy education in India at Institute for a Sustainable Environment, Clarkson University, Potsdam, NY, USA, January 2019.
  + Invited talk on ‘Energy Conservation as reflected in Indian Cultural Traditions’ at University of Wisconsin- Stevens Point, USA, November 2018.
  + Invited talk on ‘Use of Crowdsourcing for Research & Experiential Learning in Environmental Sciences’ at University of Wisconsin-Stevens Point, USA, November 2018.
  + Invited Expert discussion related to Energy Education in the US and India at the Wisconsin K-12Energy Education Programme (KEEP), Stevens Point, USA, November 2018.
  + Invited Focus Group discussion on Energy Education with experts and scientists at Oakridge Institute for Science and Education, Oakridge National Laboratory, Tennessee, USA, August 2018.
  + Invited Session Chair for E-Learn conference at Las Vegas, USA, October 2018.
  + Invited Session Chair for conference at Cambridge University, UK, December 2017.

**INNOVATIONS/CONTRIBUTIONS IN TEACHING**

* + **PEERA:** Public Environmental Education and Research App (Crowdsourcing mobile App based on Open Data Kit)
  + **Optoquest:** A Multimedia learning package in Physics based on the SCERT Std.IX syllabus.
  + **Health Literacy Package:** A Multimedia package on “Health Awareness of Occupational Diseases “for the Women at risk employed in Coir retting along the coastal belt of Kerala.
  + **Cyber Awareness Package:** A Multimedia package on Cyber Awareness.
  + **Thirakalkkipuram:** A documentary about fishermen community [(http://youtu.be/n1EbWqUcocU)](http://youtu.be/n1EbWqUcocU)
  + Physics Attitude Scale (PAS)
  + Cyber Crime Inventory
  + Occupational Disease Awareness Inventory
  + Questionnaire on Health Awareness of occupational diseases related to coir industry
  + Awareness scale on occupational diseases related to coir retting
  + Research tool for Cognitive Development Model.
  + Experiential Learning through Community Visit: An innovative strategy in Teacher Education.

**PROFESSIONAL ASSOCIATION/MEMBERSHIP**

* + Review member, Energy & Environment, Sage journals
  + Peer Review Committee Member, The Journal of Systemics, Cybernetics and Informatics (JSCI), A peer reviewed open-access international publication in the areas of Systems Philosophy, System Sciences and Engineering (Systemics), Communication and Control concepts, systems and technologies (Cybernetics,) and Information Systems and Technologies (Informatics). ISSN: 1690-4524(Online).
  + Peer Review Committee Member, Research Tracks, A peer reviewed bi-annual international journal in Education. ISSN: 2347-4637.
  + Co-Editor, Research Demagogue, A peer reviewed bi-annual international journal in Education.
  + Editorial Board Member, Gurujyothi Research and Reflections; Interdisciplinary biannual Journal published by Sree Narayana Training College, Nedunganda. ISSN: 0976-0865.
  + Chief Editor, Knowledge Management and instructional Technology-The Praxis of Teaching and Learning: UGC sponsored National Workshop volume published by Sree Narayana Training College, Nedunganda. ISBN: 978-81-927948-0-8.
  + Member, American Geophysical Union (AGU), USA
  + Life member, Society of Energy Engineers & Managers (SEEM), India.
  + Member, Global Energy Parliament by Isa Viswa Prajnana Trust (Consultative status to UN-ECOSOC)
  + Life member, Council for Teacher Education. Kerala Chapter, India.
  + Member, Kerala University Physical Science Teachers Association, Kerala.
  + Member, Association of International Researchers of Indian Origin.

**PROFESSIONAL TRAVEL (OUTSIDE INDIA)**

* + Visiting Professor, University of Southampton, UK
  + Paper presentation on STEM Education at National Institute of Education, Nanyang Technological University, Singapore (2024)
  + Fulbright –Nehru Post-Doctoral Fellow at National Space Science Technology Centre, Huntsville, USA (2018).
  + Session Chair for the London International Conference on Education (LICE- 2017) at University of Cambridge, UK.
  + Raman Post-Doctoral Fellow in University of Alabama in Huntsville, Alabama, USA (2014).
  + Ninety-Second Annual Meeting of the Alabama Academy of Science, Inc. Alabama Academy of Science and Alabama Junior Academy of Science at Lyon Hall, The University of West Alabama, Livingston, AL 35470, USA (2015).
  + International Conference ‘Global Learn Asia Pacific 2010—Global Conference on Learning and Technology’ Association for the Advancement of Computing in Education (AACE) at Penang, Malaysia. (2010).