



## Department of Science Education Unit Faculty of Science / University of Peradeniya



### Dr. W.D. Chandrasena

*B.Sc., M.Sc. (Perad.), M.Phil. (CMB), Ph.D. (UWS, Australia)*

**Senior Lecturer**

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### About Me

As a responsible academic, my strong intention is to become a highly acclaimed person who could integrate teaching, researching & counseling into the education process to produce high quality & skilful graduates with right attitudes towards benefit of the community through critical innovative and rational thinking. Thus, my overall vision is to become a High Calibre Educationist during my tenure to contribute enormously for a better future in this world through the aspects related to the field of Science Education.

I started my career as a High School Science and Mathematics teacher in a remote area of Viyaluwa Education Zone, Uva Province, Sri Lanka. As I wanted to continue my higher studies at the University level I admitted to the University of Peradeniya with 8.5 years of teaching experience. During the period of my school teaching I was able to gather a lot of experience in teaching and learning process. I have noticed that especially the students in remote areas need a proper motivation, facilitation, and guidance to continue their studies as the environment is not conducive and very much supportive towards their education. Hence, I have the mission and the vision of supporting the learners towards their education through my endeavours becoming an effective and efficient educator nationally and internationally in my profession.

### Higher Education Qualifications

🎓 **PhD**

UWS

🎓 **MPhil**

University of Colombo  
Sri Lanka

🎓 **MSc**

University of Peradeniya  
Sri Lanka

🎓 **BSc**

University of Peradeniya  
Sri Lanka

## Awards, Scholarships, Memberships & Fellowships



Young Scholar Best Paper Awards - Asia Pasific Educational Research Association & The Hong Kong Educational Research Association International Conference 2014



PhD Scholarship (IPRS) International Postgraduate Research Scholarship Award



PhD Commended Award at Self - Conference in Germany



Three minute thesis Competition Award by University of Western Sydney Australia

## Positions Held



Senior Lecturer



Deputy Director, Learning Resources, Centre for Distance and Continuing Education, University of Peradeniya, Sri Lanka- (2016 - 2020)



Former Acting Director, Staff Development Centre, University of Peradeniya, Sri Lanka- (2015)



Course Coordinator, M.Sc. in Science Education, Postgraduate Institute of Science, University of Peradeniya, Sri Lanka (Current)- (2014 Onwards)



Chemistry Subject Coordinator, M.Sc. in Science Education, Postgraduate Institute of Science, University of Peradeniya, Sri Lanka- (2015)



Course Coordinator, Undergraduate Programme in Science Education, Postgraduate Institute of Science, University of Peradeniya, Sri Lanka- (2014 Onwards)



Visiting Lecturer, South Eastern University of Sri Lanka- (2013, 2014, 2015, 2016, and 2017)








Co - Coordinator of Soft Skills Programme held at the Faculty of Science, University of Peradeniya, Sri Lanka- (2013)



Co - coordinator of Career Guidance Programme held at the Faculty of Science, University of Peradeniya, Sri Lanka- (2013)




## My Teachings

-  SE201: Foundations in Science Education
-  SE202: Educational Philosophy and Educational Management
-  SE301: Methodology in Teaching Science
-  SE302: Teaching practice
-  SE303: Assessing students in the learning process

## Research Interests (Research Fields/ Projects)

Students' Misconceptions in Science, Chemical Calculations, Designing Low Cost, Colourful, Attractive and Simple Experiments for Teaching Basic Scientific Concepts, Use of Computer Technology in Science Teaching

## Ongoing Research and Projects

-  **Application of Self-Determination Theory in Science Teaching**
-  **Development of New Model on Reflective Practice for Prospective Teachers in N.C.O.E.s in Sri Lanka**
-  **Traditional Teaching and Assessment Versus Skills Oriented Instruction and Assessment to Enhance Generic Skills in Learning Chemistry Components in Grade Seven in Central Province Schools, Sri Lanka**

## Key Publications



Nothing to show under this subheading !!!

## Conferences



### International Conference, Melbourne

**HELD AT :** Melbourne Campus, Australia. - (25–28 September, 2017)

**TOPIC :** *Investigation of the Relations of Students' Physics Self - Concepts on Mechanics, Electricity, Waves, Pressure, Force, Energy - Work and Power with Their Achievements.*



### International Conference on Self - Determination Theory

**HELD AT :** British Columbia, Canada - (2-5 June, 2016)

**TOPIC :** *Seeding Science Success The Significance of Secondary Science Students' Motivation on Their Science Aspirations and Achievement*



### International Conference, Germany

**HELD AT :** Kiel, Germany. - (20–24 August, 2015)

**TOPIC :** *Seeding Science Success: Relations of Secondary Science Students' Self - Concepts with Their Achievement and Aspirations*



### Educational research Association International Conference, Hong - Kong

**HELD AT :** Hong - Kong. - (19-21 November, 2014)

**TOPIC :** *Seeding Science Success: Psychometric Properties of Secondary Science Questionnaire on Students' Self - Concept, Motivation, and Aspirations.*



### International Conference and ERAS Conference

**HELD AT :** Nanyang, Singapore - (9th - 11th September, 2013)

**TOPIC :** *Seeding Science Success: The Relations of Secondary Students' Science Self - Concepts and Motivation with Aspirations and Achievement*

## My Publications

Please goto the website.

<https://sci.pdn.ac.lk/seu/staff/WD-Chandrasena>