

# **RESEARCH PUBLICATIONS OF OUSL ACADEMIC STAFF - 2016**



**THE OPEN UNIVERSITY OF SRI  
LANKA**



# Preface

Academic staff of the Open University Sri Lanka have published their works in various research forums. This report documents research publications of OUSL academic staff in terms of books, book chapters, publications in indexed Journals, refereed Journals and all of the materials published in conferences and workshop papers presented in 2016. These publications have been made from the various research collaborations from OUSL academics through several research grants nationally and internationally in year 2016. In addition, considerable funds were released through OUSL funds and competitive research grants from University Grant Commission. The database was compiled through the information given in Google scholar, Research Gate, all Deans of the Faculties, Directors of Institutes, Heads of the Departments and personal communication from the OUSL staff. Research Unit appreciates their collaborations throughout the compilation of this report. Readers are referred to the annual publications list from the each Faculty/Institute/Division that details all of the material published, and conference and workshop papers presented by OUSL staff in 2016. The summary of the publications of the each Faculty/Institute/Division is separately documented. The final section contains a summary of the all publications of the Open University of Sri Lanka. I am happy to inform you that the total of 12 books/book chapters, 34 publications in indexed Journals, 125 journal articles in refereed Journals and 196 conference proceedings were published by the OUSL academic staff in year 2016.

Research Unit expects that the details provided from this document enable all academic staff members, Management of OUSL and all stakeholders to identify the loopholes, planning and design the future direction of the research of OUSL that might come with the Strategic Management Plan of 2017-2020.

The services from Dr. Prasanna Dharmapriya and Mr. Pasan Herath (both are demonstrators of Department of Physics) to collection and compilation of this dataset are greatly acknowledged.

Prof. G.W.A.R. Fernando  
*Director/Research*  
*The Open University of Sri Lanka*  
*30<sup>th</sup> March 2017*



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# **FACULTY OF EDUCATION**





## FACULTY OF EDUCATION

Department	Books/ Book Chapters	No. of Publications With Impact Factor Citations	No. of Publications/ (no impact factor)	Conference proceedings /abstracts/ extended abstracts
Department of Secondary & Tertiary Education	1	0	2	12
Department Early Childhood & Primary Education	0	1	1	3
Department of Special Needs Education	0	0	2	11
<b>Total</b>	<b>1</b>	<b>1</b>	<b>5</b>	<b>26</b>

### DEPARTMENT OF SECONDARY & TERTIARY EDUCATION

#### Books/Book Chapters

1. Karunanayaka, S. and Naidu, S. (Eds.) (2016). Dream weaving Open Educational Practices, OUSL Publication. pp. 237, ISBN 978-955-23-1622-7

#### Publications with Impact Factor Citations

None

#### Publications/ (no impact factor)

1. Karunanayaka, S. P., Rajendra, J.C.N. and Ratnayake, H.U.W., Naidu, S. (2016). Peer- facilitated discussions to enhance OER-based eLearning. *AAOU Journal, Volume 11, No.1, 1-16 DOI 10.1108/AAOUJ-07- 2016-0022*
2. Safeek, N.M.M. Nawastheen, F.M., (2016). குப்பறைக் கற்றல் கற்பித்தல் செயற்பாடுகளின் ருத்தியில் அதிபரின் போதனா தலைமைத்துவம். கல்வியியலாளன் ஆய்விதழ் (Educationalist Research Journal). 5. 5- 24.

#### Conference proceedings/abstracts/extended abstracts

1. S.P. Karunanayaka, S. Naidu, S. Kugamoorthy, T.D.T.L. Dhanapala, A. Ariyaratne, L.R.Gonsalkorala, M.Rajini, W.M.S. Weerakoon, W.M.S.Wanasinghe, S.Karunanayake, M.L. Sudarshana, N.M.R.K. Nawaratne, M.N.C. Fernando and K. Gnaneratnam (2016). Towards open educational practices with reflective practice. Proceed. Open University Research Sessions (OURS 2016), p. 10

2. Karunanayaka, S. P., Naidu, S. & Menon, M. (2016). Transformational Change at the Intersections of Technology, Education and Design at the Open University of Sri Lanka. Proceed to the Eighth Pan-Commonwealth Forum on Open Learning (PCF8), 27-30 November, 2016, Kuala Lumpur, Malaysia. Available at <http://oasis.col.org/handle/11599/2513>
3. Karunanayaka, S. P., Naidu, S., Rajendra, J.C.N., Ratnayake, H.C.U. (2016). Designing Reflective Practice in the Context of OER-based e-Learning. Paper presented at the Eighth Pan-Commonwealth Forum on Open Learning (PCF8), 27-30 November, 2016, Kuala Lumpur, Malaysia. Available at <http://oasis.col.org/handle/11599/2514>
4. Karunanayaka, S. P. (2016). Enhancing Quality in Online Technical Teacher Education in Sri Lanka. Paper presented at the Eighth Pan-Commonwealth Forum on Open Learning (PCF8), 27-30 November, 2016, Kuala Lumpur, Malaysia. Available at <http://oasis.col.org/handle/11599/2644>
5. Karunanayaka, S. P. and Abeywardena, I. S. (2016). Advocacy, Sensitization and Development of OER Policy for Provincial Education Ministries in Sri Lanka. Paper presented at the Eighth Pan-Commonwealth Forum on Open Learning (PCF8), 27-30 November, 2016, Kuala Lumpur, Malaysia. Available at <http://oasis.col.org/handle/11599/2626>
6. Karunanayaka, S. P. and Naidu, S. (2016). A design-based approach to support and nurture open educational practices. Paper presented at the 30 th Annual Conference of the Asian Association of Open Universities (AAOU), 26-29 October 2016, Manila, Philippines
7. Karunanayaka, S.P. (2016). Capacity building in online courseware development for technical teacher education. Research paper presented at the UVT Research Symposium-2016, held 1 st September, 2016, at University of Vocational Technology, Ratmalana.
8. Kugamoorthy, S., (2016). Developing self-regulated learning practices and meta cognitive skills through activity based learning: Possibilities and challenges, Proceed. Open University Research Sessions (OURS 2016), p. 141
9. Safeek, N.M.M. and Nawastheen, F.M. (2016). The instructional leadership role of principals in developing good practices in teaching & learning process in the tamil medium schools of Puttalam District in Sri Lanka. 6th International Symposium 2016, South Eastern University of Sri Lanka. 6th International Symposium 2016, South Eastern University of Sri Lanka. 1-12.
10. Vasanthamalar, K. and Nawastheen, F.M. (2016). Managerial roles of school principals in handling conflict between principal and teachers in their interaction in Teldeniya tamil medium schools. South Eastern University of Sri Lanka. 6th International Symposium 2016, South Eastern University of Sri Lanka. 13-22.
11. Nawastheen, F.M., Gonsalkorala, L.R., Wanasinghe, W.S.M. and Seneviratne, P., (2016). A Study on PGDE Student-Teachers' Efficacy Beliefs in the Teaching and Learning Process. Conference: 30th Annual Conference Asian Association of Open Universities- AAOU2016, At Crowne Plaza Manila Galleria, Metro Manila, Philipines.

12. Nawastheen, F.M., Puteh, S.N. (2016). Teachers' innovation configuration of 5E model in the implementation of competency based curriculum reforms in Sri Lanka. Proceed. 7<sup>th</sup> UPSI-UPI International Conference in Education, At Universiti Pendidikan Sultan Idris, Tanjong Malim, Perak, Malaysia.

## **DEPARTMENT EARLY CHILDHOOD & PRIMARY EDUCATION**

### **Books/Book Chapters**

None

### **Publications with Impact Factor Citations**

1. Rajapaksha, P.L.N.R., (2016). Scaffolding Sociodramatic Play in the Preschool Classroom: The Teacher's Role. Mediterranean Journal of Social Sciences 7(4):689-694. (*impact factor. 0.26*)

### **Publications/ (no impact factor)**

1. Seneviratne, P. (2016). A study on the strategies to develop pro-social behaviour of preschool children in Sri Lanka, Journal of Research, Policy & Practice of Teachers & Teacher Education (JRPPTTE), 6 (2), p.60-66

### **Conference proceedings/abstracts/extended abstracts**

1. Peellalage Seneviratne, Fareed Mohamed Nawastheen, Lalith Ranjan Gonsalkorala, W.M. Shamindha Wanasinghe (2016). A Study on PGDE Student-Teachers' Efficacy Beliefs in the Teaching and Learning Process, Proceed. 30th Annual Conference Asian Association of Open Universities- AAOU2016, At Crowne Plaza Manila Galleria, Metro Manila, Philippines
2. Mukunthan, T, Raveenthiran, (2016). Usage of Teaching Learning Material in Primary Classes- A Study Based on Difficult Areas. 6 th International Symposium, South Eastern University of Sri Lanka. 749-758
3. Mukunthan, T. (2016). A study on Sri Lankan children's conception of space. The 7th UPSI-UPI International Conference in Education, At Universiti Pendidikan Sultan Idris, Tanjong Malim, Perak, Malaysia.

# DEPARTMENT OF SPECIAL NEEDS EDUCATION

## Books/Book Chapters

None

## Publications with Impact Factor Citations

None

## Publications/ (no impact factor)

1. Alwis, K.A.C, (2016) Teacher- pupil relationship: Comparison between special and inclusive schools, *Journal of Intellectual Disability Research*, Volume 60-p; 769
2. Ketheeswaran. K. (2016), Usage of the Smart Phones for Learning Purposes by Students Who Follows 'Diploma in Commonwealth Youth Development Programmes' in the Colombo And Batticaloa Centres of the Open University of Sri Lanka, *IOSR Journal Of Humanities And Social Science (IOSR-JHSS 21 (5), 75-78*

## Conference proceedings/abstracts/extended abstracts

1. Dhanapala, T.D.T.L., Anoma Fonseka, E.S.P.K. Hettiarachchi (2016). Senehasa Education, Resource, Research and Information Centre (SERRIC), *Proceed. the WBU-ICEVI Joint Assemblies at Rosen Centre Hotel, Orlando, USA Hotel*, on 22.08.2016, pp. 111-115.
2. Dhanapala, T.D.T.L. (2016). Awareness and motivation of parents of Low Vision children in Sri Lanka- An activity based study, *Proceed. the WBU-ICEVI Joint Assemblies at Rosen Centre Hotel, Orlando, USA Hotel*, on 22.08.2016, pp. 262-267.
3. Dhanapala, T.D.T.L. (2016). Role of special education trained teachers and special schools within inclusive education, *Proceed. the WBU-ICEVI Joint Assemblies at Rosen Centre Hotel, Orlando, USA Hotel*, pp. 340 – 344.
4. Dhanapala, T.D.T.L., S.P. Karunanayaka, S. Naidu, S.Kugamoorthy, L.R.Gonsalkorala, A. Ariyaratne, M.Rajini, S. Wanasinghe, S.Weerakoon, S. Karunanayaka, M.L. Sudarshana, R. Nawaratne, M.N.C. Fernando, & K. Gnaneratnam (2016). *Towards open educational practices with reflective practice* , Presented at the Open University Research Sessions -2016, 17<sup>th</sup> & 18<sup>th</sup> November 2016 (T.D.T.L.) (Full paper published in the Proceedings - pp. 10- 14
5. Dhanapala, T.D.T.L., B.G.H. Anuruddhika, K.A.C. Alwis, K. Ketheeswaran (2016). *Building new identities in special needs education for teachers through ODL*. *Proceed. the 30<sup>th</sup> Annual Conferences of the Asian Association of Open Universities*, Manila, Philippines – 26<sup>th</sup> October – 29<sup>th</sup> October, 2016
6. Alwis K.A.C (2016) Educational Experiences: The Academic Success of Students with Blindness and Visual Impairments, *Proceedings to WBU-ICEVI General Assemblies on 2016 08. 22, Florida USA.*

7. T.D.T.L. Dhanapala, B.G.H. Anuruddhika, K.A.C. Alwis, K. Ketheeswaran (2016) Building new identities in special needs education for teachers through *ODL*. Proceed. to the 30<sup>th</sup> Annual Conferences of the Asian Association of Open Universities, Manila, Philippines – 26<sup>th</sup> October – 29<sup>th</sup> October, 2016.
8. Ketheeswaran, K. (2016), Usage of the Smart Phones for Learning Purposes by Students Who Follows 'Diploma in Commonwealth Youth Development Programmes' in the Colombo and Batticaloa Centres of the Open University of Sri Lanka, 4<sup>th</sup> International Conference Eastern University, Sri Lanka., p.45.
9. Dhanapala, T.D.T.L, Alwis, K.A.C., .Anuruddhika, B.G.H .and Ketheeswara, K. (2016). Building New Identities in Special Needs Education for Teachers through *ODL*, Annual Conference of Asia Association of Open Universities 30, p.44.
10. Kuruppu, K.A.S.S. (2016). Deal with Dysfluency (Stammering): An Integrated Approach, Proceed. Second International Conference on Linguistics in Sri Lanka. University of Kelaniya, p. 65.
11. Kuruppu, K.A.S.S. (2016). Perception of primary school teachers about children who stammer in the classroom Faculty of Education. Proceed. OURS 2017, The Open University of Sri Lanka, p.5.



**FACULTY OF  
ENGINEERING TECHNOLOGY**





## FACULTY OF ENGINEERING TECHNOLOGY

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Department	Books/ Book Chapters	No. of Publications With Impact Factor Citations	No. of Publications/ (no impact factor)	Conference proceedings /abstracts/ extended abstracts
Department of Agriculture and Plantation Engineering	00	01	07	12
Department of Civil Engineering	00	00	14	02
Department of Electrical and Computer Engineering	01	01	08	26
Department of Maths & Philosophy of Engineering	00	02	02	01
Department of Mechanical Engineering	00	00	09	05
Department of Textile and Apparel Technology	00	00	02	05
<b>Total</b>	<b>01</b>	<b>04</b>	<b>42</b>	<b>51</b>

### DEPARTMENT OF AGRICULTURE AND PLANTATION ENGINEERING

#### Books/Book Chapters

None

#### Publications with Impact Factor Citations

1. Rushton, K. R., De Silva, C. S. (2016). Sustainable yields from large diameter wells in shallow weathered aquifers. *Journal of Hydrology*, 539, 495-509. (*Impact Factor* 2.028)

## **Publications/ (no impact factor)**

1. Kavish, S., Botheju, W.S. and De Silva, C.S. (2016). Impact of Inlet Drying Temperature in Endless Chain Pressure Dryers on the Quality Characteristics of Leafy Type of Tea Produced Using Different Leaf Standards. OUSL Journal. 10, pp.73–92. DOI: <http://doi.org/10.4038/ouslj.v10i0.7336>.
2. Dishani, P. T. N. and De Silva, C. S. (2016). Effect of Simulated Temperature and Water Stress on Growth, Physiological and Yield Parameters of Tomato Grown with Mulch. OUSL Journal, 11, 37-51.
3. De Silva, C.S. and Godawatte, V.N.A., (2016). Impact of Different Mulches on Growth and Yield of Red Okra (*abelmoschus esculentus*) Indigenous Variety Exposed to Temperature Stress. OUSL Journal. 10, 41–57. DOI: <http://doi.org/10.4038/ouslj.v10i0.7334>.
4. Gunawardena, M.D.M., De Silva, C.S. (2016). Effects of Global Warming Simulated Temperature and Water Stress on Fruit Quality of Tomato (*Lycopersicum esculantum*) Var. Rajitha. OUSL Journal. 11, 93–112. DOI: <http://doi.org/10.4038/ouslj.v11i0.7345>.
5. Thrikawala, S., Sudasinghe, M.I., Galagedara, L.W., Gunawardena, E.R.N. and Narayanan, N.C., (2016). Applicability of decentralized, small-scale vs. centralized, large-scale Sewage Treatment Plants for urban sanitation: a case study from Sri Lanka. South Asian Water Studies. 5, p. 85-97.
6. De Mel, P.K.J. and Kuruppuarachchi, K.A.J.M. (2016). High Tree Endemism Recorded in Kanana Kanda Isolated Forest Fragment in Wet Zone of Sri Lanka. Journal of Agriculture, Forestry and Plantation. Volume 2, pp 115 - 121. <http://ijafp.com/index.php/volume-2-february-2016/>.
7. Herath, H.M.U.N., De Siva, Saliya. (2016). Leadership Traits and their impact on market strategies. International Journal of Agriculture, Forestry and Plantation, Vol. 2 (February.) ISSN 2462-1757. p. 227-233

## **Conference proceedings/abstracts/extended abstracts**

1. E. M .S. Ranasinghe and C. S. De Silva (2016). An analysis of seasonal rainfall variability on paddy production in Sri Lanka. Proceedings of the International Research Conference (IconArts2016) 12-13 Oct: 2016, Faculty of Arts, University of Colombo, Sri Lanka. p.76.
2. M. A. W. Mohamed Anas, Y. B. Iqbal, C. S. De Silva (2016). Evaluation of the effects of compost as a substitution for inorganic fertilizers on yield of rice (BG 94 - i) in Ampara District, Proceed. Open University research Sessions, p.164.
3. P. T. N. Dishani, C. S. De Silva (2016). Constraints on water availability for agricultural production in the dry zone of Sri Lanka and the possible adaptation esures- A case study in Rajagana-Anuradhapura District. Proceed. Open University research Sessions, p. 168.

4. De Silva, C.S. (2016) Impact of Phosphate Fertilizers on Soil Water Pollution and Safe Food Production in Central Highlands of Sri Lanka and Possible Health Hazards, Proceed. Symposium of the Water Professionals' Day-2016, PGIA, University of Peradeniya. p. 61-74.
5. K. M. A. S. Konara, W. A. P. Weerakkody, K. W. L. K. Weerasinghe, S. Thrikawala (2016). Influence of supplementary illumination on yield and quality of greenhouse bell pepper (*Capsicum annum* L.). Proceed. Open University research Sessions, p. 172.
6. Karunaratne, P.U.H.S., M.G. Thammitiyagoda, R.PN.P. Rajapakse, N.S. Weerakkody (2016). Determination of Eye Irritancy levels of *Alpinia galangal* extract using Hen'S Egg Test- Chorioallantoic membrane (HET-CAM) method as alternative for Draize eye irritation test. Proceed. Sri Lanka Association for Laboratory Animal Science. University of Sri Jayewardenepura, Colombo 28<sup>th</sup> & 29<sup>th</sup> January 2016.
7. Karunaratne, P.U.H.S., R.PN.P. Rajapakse, N.S. Weerakkody (2016). Comparative study of Antimicrobial activity of Sri Lankan grown galangal and ginger against food-borne pathogens. Food Techno, Proceed. 2<sup>nd</sup> Annual research session Institute of Food Science And Technology Sri Lanka, Mihilaka Medura BMICH Colombo 13th August 2016.
8. Amarasinghe, H., N.S Weerakkody, V. Waisundara (2016). Evaluation of antioxidant activity and chemical properties of Kombucha "Tea Fungus" during extended period of fermentation. Food Techno, Proceed. 2<sup>nd</sup> Annual research session Institute of Food Science And Technology Sri Lanka, *Mihilaka Medura* BMICH Colombo 13th August 2016.
9. Nisansala A. D. N. S., Gunasekera H. K. L. K. and Wickramasinghe M. C. (2016). Effect of calcium concentration for producing high quality flowers in *Gerbera jamesonii* L, Proceed. 9<sup>th</sup> National Symposium on Floriculture Research (NASFLOR-2016), Department of National Botanic Gardens Peradeniya in collaboration with Sri Lanka Council for Agricultural Research Policy (CARP), 9:18.
10. Sewwandi H. P. T. I., Gunasekera H.K.L.K and Krishnaraja S. A. (2016). Effect of Auxin in combination with Gibberellic acid and light on spiral production of *Dracaena sanderiana* var. White. Proceed. 9<sup>th</sup> National Symposium on Floriculture Research (NASFLOR-2016), Department of National Botanic Gardens Peradeniya in collaboration with Sri Lanka Council for Agricultural Research Policy(CARP), 9:25.
11. Chamini D.A.M.N., Gunasekera H.K.L.K and Krishnaraja S.A (2016). Effect of growth hormones and subsequent detopping in *Cordyline terminalis* L 'Red edge'. Proceed. 9<sup>th</sup> National Symposium on Floriculture Research (NASFLOR-2016), Department of National Botanic Gardens Peradeniya in collaboration with Sri Lanka Council for Agricultural Research Policy(CARP),9:24.
12. Widurugewatte W.G.S.K., Gunasekera H.K.L.K. and Krishnaraja S. A. (2016). Effect of Gibberelin and Cytokinin for Lateral Shoots formation of *Anthurium*. Proceedings of the 8<sup>th</sup> National Symposium on Floriculture Research, Department of National Botanic Gardens Peradeniya in collaboration with Sri Lanka Council for Agricultural Research Policy.

# DEPARTMENT OF CIVIL ENGINEERING

## Books/Book Chapters

None

## Publications with Impact Factor Citations

None

## Publications/ (no impact factor)

1. Perera, K.V.D., Miskitha, P.N., Jayasekera, J.P.H.P.K., Pathirana, C.P.S., Weerasekera, K.S., (2016). Performance of a Sensitivity Analysis on the Multi-Function Network Survey Vehicle (MFNSV). Engineer: Journal of the Institution of Engineers, Sri Lanka. 49(3), pp.21–29. DOI: <http://doi.org/10.4038/engineer.v49i3.7073>.
2. Weerasekera, K.S. (2016). Traffic Calming & Its Applicability in Sri Lanka. Engineer: Journal of the Institution of Engineers, Sri Lanka. 44(2), 61–72. DOI: <http://doi.org/10.4038/engineer.v44i2.7024>
3. Maduwanthi, C.D.S., Gunarathna, T.A.M.N., Weerasekera, K.S. (2016). A Traffic Management Scheme to ease Vehicle & Pedestrian Movements in the Kottawa Town. Engineer: Journal of the Institution of Engineers, Sri Lanka. 49(2), pp.35–50. DOI: <http://doi.org/10.4038/engineer.v49i2.7007>.
4. Weerasekera, K.S. (2016). Selection of an Appropriate 'statistical Model' for Baseline Road for Low Volume Traffic Flow. Engineer: Journal of the Institution of Engineers, Sri Lanka. 43(1), pp.16–21. DOI: <http://doi.org/10.4038/engineer.v43i1.6988>.
5. Weerasekera, K.S., (2016). Impact on Existing Transport Systems by Generated Traffic due to New Developments. Engineer: Journal of the Institution of Engineers, Sri Lanka. 44(3), pp.31–37. DOI: <http://doi.org/10.4038/engineer.v44i3.6962>.
6. Weerasekera, K.S., (2016). Validity of Reversible Flow Lanes between Kandy Road Flyover and New Kelani Bridge Roundabout along A01 to Accommodate Peak Traffic Flows. Engineer: Journal of the Institution of Engineers, Sri Lanka. 44(4), pp.11–16. DOI: <http://doi.org/10.4038/engineer.v44i4.6953>.
7. Amarasinghe, A.S., Gurusinge, A.I., Weerasekera, K.S., (2016). Future Impact on Maharagama Town Traffic Flow and Pedestrian Safety due to Southern Expressway and Outer Circular Highway: Proposed Solutions. Engineer: Journal of the Institution of Engineers, Sri Lanka. 45(1), pp.25–38. DOI: <http://doi.org/10.4038/engineer.v45i1.6947>.
8. Thibbotuwawa, D.P.M.B., Weerasekera, K.S., (2016). Study of Stabilization of Unstable Area and Development of Mitigation Measures for Landslide at Peradeniya, due to Widening of Town Roads. Engineer: Journal of the Institution of Engineers, Sri Lanka. 46(2), pp.43–57. DOI: <http://doi.org/10.4038/engineer.v46i2.6909>.

9. Pallewatta, T.M., (2016). From the Editor. Vol. 44(4). Engineer: Journal of the Institution of Engineers, Sri Lanka. 44(4). DOI: <http://doi.org/10.4038/engineer.v44i4.6951>.
10. Pallewatta, T.M., (2016). From the Editor. Vol. 49(1). Engineer: Journal of the Institution of Engineers, Sri Lanka. 49(1), p.III. DOI: <http://doi.org/10.4038/engineer.v49i1.6912>.
11. Dolage, D.A.R., Perera, P.W.S.D., (2016). Delays in the Pre-Construction Phase of State Sector Building Projects. Engineer: Journal of the Institution of Engineers, Sri Lanka. 42(3), pp.22–30. DOI: <http://doi.org/10.4038/engineer.v42i3.7049>.
12. Dolage, D.A.R., Suthesan, N., (2016). Adequacy of Indemnity Afforded by Performance Bonds Used in State Sector Construction Projects. Engineer: Journal of the Institution of Engineers, Sri Lanka. 42(4), pp.128–137. DOI: <http://doi.org/10.4038/engineer.v42i4.7042>.
13. Dolage, D.A.R., Pallewatta, T.M. Bandara, R.R.G.S., (2016). Tensile Properties and Volumetric Stability of Indigenous Woody Plant Materials under Different Seasoning Techniques. Engineer: Journal of the Institution of Engineers, Sri Lanka. 45(1), pp.9–16. DOI: <http://doi.org/10.4038/engineer.v45i1.6945>.
14. Dolage, D.A.R., Gamage, S.P.P., Karunasena, T.V.K.I.S., (2016). Treatment of Seepage through Vendarasankulum Twin Reservoir in Eastern Sri Lanka - Cost Comparison of Alternative Techniques. Engineer: Journal of the Institution of Engineers, Sri Lanka. 45(3), pp.11–20. DOI: <http://doi.org/10.4038/engineer.v45i3.6929>.

### **Conference proceedings/abstracts/extended abstracts**

1. Chaturanga, J. L. N. De Costa, W. A. B., Igalawithana, T. N. Wijewardena, L. S. S., P. Karunananda, A. K., (2016). A comparative study of wind codes to be used for tall Buildings in Sri Lanka. Proceed. Open University Research Sessions 2016, At Colombo, Sri Lanka., p.74
2. Deiyagala, D. A. T. H., Perera, M. A. N. Priyadarshani, P. G. N., Pallewatta, T. M., Samarawickrama, . M. N. C., Thibbotuwawa, D. P. M. B. (2016). Appropriateness of crushed construction waste in concrete appropriateness of crushed construction waste in concrete and mortar production. Proceed. The Open University Research Sessions, p.76.

## **DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING**

### **Books/Book Chapters**

1. Wickramasinghe, T.C.P.K. (2016). Supercapacitor-based linear converter for voltage regulator modules, Ph.D. dissertation, School. Eng., waikato Univ., Hamilton, New Zealand, Retrieved from <http://hdl.handle.net/10289/10624>

## **Publications with Impact Factor Citations**

1. Anthonys, G., (2016). The magnetisation of two ferromagnetic spheres placed randomly in a magnetic field. *Journal of the National Science Foundation of Sri Lanka*. 44(1), pp.23–32. DOI: <http://doi.org/10.4038/jnsfsr.v44i1.7978> (impact factor 0.203)

## **Publications/ (no impact factor)**

1. Galathara, G.M.N.K.K., Samaliarachchi, L.A. Sooriyadasa, S.M.D.P.K., (2016). Optimization of the Accuracy of Semi-Indirect Energy Metering System. *Engineer: Journal of the Institution of Engineers, Sri Lanka*. 47(3), pp.1–11. DOI: <http://doi.org/10.4038/engineer.v47i3.6890>.
2. Chaturanga, H.K.A., Samaliarachchi, L.A., Weerasinghe, M.L., (2016). An Automatic Frequency Controller for Kotmale Hydro Power Station using Fuzzy Logic. *Engineer: Journal of the Institution of Engineers, Sri Lanka*. 49(2), pp.9–16. DOI: <http://doi.org/10.4038/engineer.v49i2.7004>.
3. Sandanayake, T.C., S.P. Karunanayake, A.P. Madurapperuma (2016). Enhancement of E-learning through Instructional Design Technology, *Journal of Emerging Technologies and Innovative Research (JETIR)*, December 2016, Volume 3, Issue 12, [www.jetir.org](http://www.jetir.org)
4. Anthony, C.R.M., Balasuriya, D.N. (2016). Electronic Honey Quality Analyser. *Engineer: Journal of the Institution of Engineers, Sri Lanka*. 49(3), pp.41–47. DOI: <http://doi.org/10.4038/engineer.v49i3.7075>
5. Seneviratne, I.R.K. Basnayakege, C. J. (2016). Smart Bliss Board System for Multiple Disabilities. *Journal of Engineering and Technology of The Open University of Sri Lanka (JET-OU SL)*. 4, 11-27.
6. Premarathne, U.S., I. Khalil, and M. Atiquzzaman (2016). Trust based reliable transmissions strategies for smart home energy consumption management in cognitive radio based smart grid”, *Ad Hoc Networks, Elsevier*, 41, p.15-29.
7. Premarathne, U.S., A Abuadbbba, A Alabdulatif, I Khalil, Z Tari, A Zomaya, R. Buyya (2016). Hybrid cryptographic access control for cloud-based EHR systems”, *IEEE Cloud Computing* 3 (4), p.58-64.
8. Hewage, D.C. and I.A. Premaratne (2016). Wheel Speed Control Algorithm for Rear Wheel Motor Driven Vehicle, 2016. *Journal of Engineering and Technology. The Open University of Sri Lanka*. Volume 04, No 2.

## Conference proceedings/abstracts/extended abstracts

1. Ratnayake, H U W and L S K Udugama (2016). Bachelor of Software Engineering: A Case Study for an Effective Degree Programme, November, 2016. Proceed. 8<sup>th</sup> Pan Commonwealth Forum, Kuala Lumpur, Malaysia
2. Ratnayake, H U W and L S K Udugama (2016). Bachelor of Software Engineering: A Case Study for an Effective Degree Programme, November, 2016. Proceed 8<sup>th</sup> Pan Commonwealth Forum, Kuala Lumpur, Malaysia
3. Shironica P. Karunanayaka, Som Naidu, J.C.N. Rajendra, H.U.W. Ratnayake, Designing Reflective Practice in the Context of OER-based e-Learning, URI: <http://hdl.handle.net/11599/2514>, November, 2016. Proceed. 8<sup>th</sup> Pan Commonwealth Forum, Kuala Lumpur, Malaysia
4. Mendis D. S. K., Rathanayake U, Karunananda A.S. and Samarathunga U. (2016). A statistical fuzzy inference system for analyzing temperamental groups in neuro-linguistic programming, National Research Symposium - 2016 (NRS-2016), Gampaha Wickramarachchi Ayurveda Institute, Yakkala, Sri Lanka, pp. 13
5. Wijesinghe, DSKU and H Pasqual (2016). Voice controlled home automation system for disabled people, Proceedings of the 72nd Annual Sessions – 2016 Part I of Sri Lanka Association for Advancement of Science, Colombo, Sri Lanka., pp 34, December 2016
6. Dissanayake, SADAN and DSKU Wijesinghe, H Pasqual and BCL Athapattu (2016) Online monitoring of water quality of wells in rural areas of Sri Lanka, Proceedings of the 72nd Annual Sessions – 2016 Part I of Sri Lanka Association for Advancement of Science, Colombo, Sri Lanka., pp 32, December 2016
7. Dissanayake, S.A.D.A.N and H Pasqual and B.C.L Athapattu (2016). Real-time insitu measurement of selected water quality parameters using an automated colorimeter, Proceedings of 5th International Symposium on Water Quality and Human Health: Challenges Ahead, PGIS Peradeniya Sri Lanka, pp: 1
8. Dissanayake, S.A.D.A.N, H Pasqual and B.C.L Athapattu (2016). Colorimetric Sensor to Detect Fluoride Concentration of Drinking Water Sources, 110th ANNUAL SESSIONS OF IESL, pp: 149 - 154,
9. Balasuriya, D.N., (2016). Design of a wireless sensor network for rice store monitoring. Proc. Annual Sessions of Sri Lanka Association for Advancement of Science (SLAAS), pp 33, December 2016.
10. Perara. S, Balasuriya, N., (2016). Visually Impaired Support-system for Identification of Notes (VISION). Proc. 2016 International Conference on Advances in ICT for Emerging Regions (ICTer), 2016, pp. 96-99.
11. Goonetilleke, C. W. S., Basnayakege, C. J., (2016). A Web-Based Domain Specific Compiler for Designing Embedded Systems. Open University Research Sessions (OURS 2016). The Open University of Sri Lanka. P47.
12. Goonetilleke, C. W. S., Basnayakege, C. J. (2016). A Domain Specific Visual Programming Language for Designing Embedded Systems. Proceedings of the 72nd

- Annual Sessions – 2016 Part I of Sri Lanka Association for Advancement of Science, Colombo, Sri Lanka., pp 35,
13. Abeysekara, S. M. A. J. B. and W. D. S. S. Bandara (2016). Notes to coin exchanger, Annual Academic Sessions, OURS 2016
  14. Anthonys, G. (2016). Magnetization of Linear Arrays of Two Ferromagnetic Spheres in a Uniform Magnetic Field, in IEEE Transactions on Magnetics, vol. 52, no. 4, pp. 1-11, April 2016. doi: 10.1109/TMAG.2015.2498910
  15. Cree, M. J., J. A. Perrone, G. Anthonys, A. C. Garnett and H. Gouk (2016). Estimating heading direction from monocular video sequences using biologically-based sensors, International Conference on Image and Vision Computing New Zealand (IVCNZ), Palmerston North, New Zealand, 2016, pp. 1-6. doi: 10.1109/IVCNZ.2016.7804435
  16. Dissanayake, S.A.D.A.N; DSKU Wijesinghe, H Pasqual and BCL Athapattu (2016). Online monitoring of water quality of wells in rural areas of Sri Lanka, Proceedings of the 72nd Annual Sessions – 2016 Part I of Sri Lanka Association for Advancement of Science, Colombo, Sri Lanka, pp 32, December 2016
  17. Dissanayake, S.A.D.A.N H Pasqual and B.C.L Athapattu (2016). Real-time insitu measurement of selected water quality parameters using an automated colorimeter, Proceedings of 5th International Symposium on Water Quality and Human Health: Challenges Ahead, PGIS Peradeniya Sri Lanka, pp: 1.
  18. Dissanayake, S.A.D.A.N, H Pasqual and B.C.L Athapattu (2016). Colorimetric Sensor to Detect Fluoride Concentration of Drinking Water Sources, 110th ANNUAL SESSIONS OF IESL, pp: 149 – 154.
  19. Meedin. G.S.N., Perera, I., (2016). Crowdsourcing for User Experience (UX) Evaluation. DOI: 10.1145/2938559.2948837 Proceedings of the 14th Annual International Conference on Mobile Systems, Applications, and Services Companion, p.58 MobiSys'16 Companion , June 25-30, 2016, Singapore, ACM978-1-4503-4416-6/16/06. <http://dx.doi.org/10.1145/2938559.2948837>
  20. Wijesooriya, J.M.N. and G.S.N. Meedin (2016). Context Aware Smart Medicine Wallet, Proceed. 72<sup>nd</sup> Ann. Sess. Sri Lanka Association for the Advancement of Science, Colombo, Sri Lanka
  21. Premaratne, U.S. (2016) PROAASEL: Prospect theory based continuous authentication attribute selection model, IEEE Moratuwa Engineering Research Conference (MERCon), p.4-89.
  22. Abeysekara, S. M. A. J. B. and W. D. S. S. Bandara, (2016). Notes to coin exchanger, November, 2016. Open University Research Sessions 2016. Open University of Sri Lanka
  23. Premaratne, I.A. (2016). Development of an E-Learning Architecture Based on Numerical Computing Software for Electrical Engineering Education in Open and Distance Mode. URI: <http://hdl.handle.net/11599/2524>, November, 2016. 8th Pan Commonwealth Forum, At Kuala Lumpur, Malaysia



24. Premaratne, I.A. and T.S. Ravindra (2016). A Mathematical Model to Calculate the Safe Distance Between Progressive Vehicles to Avoid Rear End Collisions. November, 2016. Open University Research Sessions 2016. Open University of Sri Lanka
25. Nanayakkara, J. (2016). Qualitative Approach for Evaluating the Effectiveness of Strategic Decisions: A Case Study of National Film Corporation for Film Distributing in Sri Lanka. 2016, The Open University Research Sessions - 2016. The Open University of Sri Lanka. p. 15
26. Kaushalya, E.S. and D.D.M. Ranasinghe, (2016). OFF-Optimizer Optimal Quotation Planning for Offset Printing Industry, 72nd Annual Sessions, Sri Lanka Association for Advancement of Science, 7th-9th December 2016

## **DEPARTMENT OF MATHS & PHILOSOPHY OF ENGINEERING**

### **Books/Book Chapters**

None

### **Publications with Impact Factor Citations**

1. Nandasena, G., de Silva, L. N. K., Kumara, K. K. W. A. S. (2017). Basic Rules of Aristotelian logic and Induction. American Scientific Research Journal for Engineering, Technology, and Sciences (ASRJETS) (2017) Volume 29, No 1, pp 263-270. (*Impact Factor 0.296*)
2. Nandasena, G., de Silva, L. N. K., Kumara, K. K. W. A. S. (2017). n-Fold m-Valued Logic. American Scientific Research Journal for Engineering, Technology, and Sciences (ASRJETS) (2017) Volume 30, No 1, pp 372-384. (*Impact Factor 0.296*)

### **Publications/ (no impact factor)**

1. Yapa, P.Y.A.G.S., DA Tantrigoda and CPS Pathirana, (2016). Illustrating the possibility of modeling the gravity anomalies in terms of bodies having density vary with depth, *Journal of Engineering and Technology (JET)*, The Open University of Sri Lanka.
2. Perera, K.V.D., Miskitha, P.N., Jayasekera, J.P.H.P.K., Pathirana, C.P.S., Weerasekera, K.S. (2016). Performance of a Sensitivity Analysis on the Multi-Function Network Survey Vehicle (MFNSV). *Engineer: Journal of the Institution of Engineers, Sri Lanka*. 49(3), pp.21–29. DOI: <http://doi.org/10.4038/engineer.v49i3.7073>.

## **Conference proceedings/abstracts/extended abstracts**

1. Yapa, P.Y.A.G.S. and D.A. Tantrigoda, (2016). Modeling of gravity anomalies over a sedimentary basin having a horizontal igneous layer intruded into it, Sri Lanka Association for the Advancement of Science (SLAAS) Proceedings of the 72nd Annual Sessions

## **DEPARTMENT OF MECHANICAL ENGINEERING**

### **Books/Book Chapters**

None

### **Publications with Impact Factor Citations**

None

### **Publications/ (no impact factor)**

1. Kithsiri, U. G. Senanayake, N. S. Abeyweera, R., Jayasuriya, J., (2016). Model for Estimation of De-rating in Diesel Engines used for Power Generation. International Journal of Energy Engineering. 6(2): 36-42
2. Jayasuriya, J., Peiris, P.T.S., Vitharanage, R.P., Abeyweera, R., Senanayake, N.S., (2016). Feasibility of Utilizing Boiler Blowdown Waste Heat for Operating an Absorption Refrigeration Chiller. International Journal of Scientific and Research Publications.6, 369-373.
3. Nandana, W.A.R., De Mel, W.R., (2016). Integrated laboratory experiment setup to empower the engineering education in distance mode. Asian Association of Open Universities Journal. 1, 13-23.
4. Kithsiri, U. G., S. K. A. Fernando, Lalith Srilal, P. D. S. H. Gunawardana, T. S. N. Wimalasiri, D. S. Jayawardena, Ruchira Abeyweera and N. S. Senanayake (2016). Feasibility of Power Generation from MSW by Plasma Gasification Technology: A Case Study in Sri Lanka. Sri Lankan Energy Managers Association Journal, vol. 19 (1), p.14-22
5. Lokuliyana, R.L.K., Chithral Ambawatte and W.V.D.L. Kumara (2016). Feasibility Study on Anaerobic Bio Gas Plants in Sri Lanka, Sri Lankan Energy Managers Association Journal, vol. 19 (1), p.1-6.
6. Gunawardane, P.D.S.H., Nimali T. Medagedara, B.G.D.A. Madusanka (2016). Control of Robot Arm Based on Hand Gesture using Leap Motion Sensor Technology, Special issue of the International Journal of Robotics and Mechatronics, SLEMA Journal

7. Tantrigoda, N.C., K.M Jayamal, Nimali. T. Medagedara and D.H.R.J Wimalasiri (2016). Fault Diagnosing of Lakvijaya Power Plant:A case study of an anti-rotational pin failure · Journal of Engineering and Technology of the Open University of Sri Lanka (JET-OUSL)Vol.4 (1), p.1-10. (ISSN 2279-2627)
8. Priyankara, Yudditha and Nimali T. Medagedara (2016). An emerging heating solution for industrial sectors in Sri Lanka, SLEMA Journal Volume 22 No 1 Special issue of the International Journal of Robotics and Mechatronics, SLEMA Journal
9. Chandrakumara, H.G.D., N.S.M.P. Sadaruwan, P.R. Dadigamuwa, T.S.S. Jatunnarachchi (2016). Saving Energy consumption in Glass Printing, European Journal of Advances in Engineering and Technology, 3(11): 42-45

### **Conference proceedings/abstracts/extended abstracts**

1. De Mel, W.R. (2016). Solar energy remote laboratory an e-learning experimentation setup. 30th Annual Conference of Asian Association of Open Universities, 30th Annual Conference of Asian Association of Open Universities, p102.
2. Withana, L. R. K., R. J. Wimalasiri and J. W. K. K. Jayasundara (2016). Prosthetic finger design with reduced DOF to synonym human finger, Proceed. Open University Research Sessions (OURS 2016), p.82
3. P.D.S.H. Gunawardane, Nimali T. Medagedara, B.G.D.A. Madhusanka (2016). A Study of a Fingertip Imitating Robot Manipulator”, Proceed.72<sup>nd</sup> Annual Session of Sri Lanka Association for the Advancement Science, (ISSN: 1391-023X)
4. Lokuliyana, R.L.K., H.C. Ambawatte, L.W.T. Rushen (2016). A Study of a Fingertip Imitating Robot Manipulator, 2016 IEEE International Conference on Information and Automation for Sustainability (ICIAfS 2016), 16<sup>th</sup> – 19<sup>th</sup>
5. Gunawardane, P.D.S.H., Nimali T. Medagedara, B.G.D.A. Madusanka, M.A.S.J. Wijesinghe (2016). The Development of a Gesture Based Soft Robot Actuator, Proceed. IEEE International Conference on Information and Automation for Sustainability (IEEE ICIAfS 2016)

## **DEPARTMENT OF TEXTILE AND APPAREL TECHNOLOGY**

### **Books/Book Chapters**

None

### **Publications with Impact Factor Citations**

None

### **Publications/ (no impact factor)**

1. Herath C. N. (2016). Study the physical property variations of core spun cotton-spandex single jersey fabrics under relaxation, Journal of Engineering and Technology, ISSN 2279-2627, Vol 4(2), pp 27-41, 2016
2. Wanniarachchi N. H. and Kumara W. V. L. (2016). A study on impact of visual merchandising on consumer buying behaviour in clothing retail stores, Journal of Engineering and Technology, ISSN 2279-2627, Vol 4(2), pp 42-57, 2016

### **Conference proceedings/abstracts/extended abstracts**

3. Perera, N.W.P.S., Fernando, C.A.N., Ariadurai, S.A., (2016). Production of Powder Activated Carbon from Palmyra Fruit Fibre at Low Cost. International Research Symposium on Engineering Advancements 2016 (IRSEA 2016). 170 – 172
4. Perera, N.W.P.S., Fernando, C.A.N., Ariadurai, S.A., (2016). Production of Powder Activated Carbon from Palmyra Fruit Fibre at Low Cost. International Research Symposium on Engineering Advancements 2016 (IRSEA 2016). 170 - 172
5. Fernando, T.N., S. A. Ariadurai, A. G. B. Aruggoda, C. K. Disanayaka, S. Kulathunge (2016). Evaluation of effect of super absorbent polymers (SAPs) developed in Sri Lanka on extending the vase life of cut flowers (Chrysanthemum instagram). Proceed. Open University Research Sessions, p.112.
6. Balakrishnan, S. and M. E. R. Perera (2016). The effect of detergents on colour deterioration of white school uniform shirting materials used in Sri Lanka, Proceed. Open University Research Sessions (OURS 2016), p.82
7. Perera, P. V. M. R. and D. S. Wijerathne (2016). Study on fashion preference: A case of twenty to thirty years old ladies of executive grade in the western province of Sri Lanka., Proceed. Open University Research Sessions (OURS 2016), p.88

# **FACULTY OF HEALTH SCIENCES**



## FACULTY OF HEALTH SCIENCES

Department	Books/ Book Chapters	No. of Publications With Impact Factor Citations	No. of Publication s/ (no impact factor)	Conference proceedings /abstracts/ extended abstracts
Department of Basic Sciences	00	06	01	00
Department of Medical Laboratory Science	00	00	01	02
Department of Nursing	00	01	02	05
Department of Pharmacy	00	00	00	01
Department of Psychology and Counselling	00	00	00	02
<b>Total</b>	<b>00</b>	<b>07</b>	<b>04</b>	<b>10</b>

## DEPARTMENT OF BASIC SCIENCES

### Books/Book Chapters

None

### Publications with Impact Factor Citations

1. Mahtab Ahmad, Yong Sik Ok, Anushka Upamali Rajapaksha, Jung Eun Lim, Byung-Yong Kim, Jae-Hyung Ahn, Young Han Lee, Mohammad I Al-Wabel, Sung-Eun Lee, Sang Soo Lee (2016). Lead and copper immobilization in a shooting range soil using soybean stover-and pine needle-derived biochars: chemical, microbial and

- spectroscopic assessments, *Journal of hazardous materials*, 301:p.179-186. (Impact factor: 4.836)
2. Chen Liu, Honglan Wang, Xiangyu Tang, Zhuo Guan, Brian J Reid, Anushka Upamali Rajapaksha, Yong Sik Ok, Hui Sun (2016). Biochar increased water holding capacity but accelerated organic carbon leaching from a sloping farmland soil in China, *Environmental Science and Pollution Research*, 23(2), 995-1006 (Impact factor: 2.76)
  3. Anushka Upamali Rajapaksha, Meththika Vithanage, Sang Soo Lee, Dong-Cheol Seo, Daniel CW Tsang, Yong Sik Ok (2016). Steam activation of biochars facilitates kinetics and pH-resilience of sulfamethazine sorption, *Journal of Soils and Sediments*, Volume 16 (3), pp 889–895 (Impact factor: 2.206)
  4. Kangyi Lou, Anushka Upamali Rajapaksha, Yong Sik Ok, Scott X Chang (2016). Sorption of copper (II) from synthetic oil sands process-affected water (OSPW) by pine sawdust biochars: effects of pyrolysis temperature and steam activation, *Journal of Soils and Sediments*. V.16, P.1-9 (Impact factor: 2.206)
  5. Kangyi Lou, Anushka Upamali Rajapaksha, Yong Sik Ok, Scott X Chang (2016). Pyrolysis temperature and steam activation effects on sorption of phosphate on pine sawdust biochars in aqueous solutions, *Journal Chemical Speciation & Bioavailability* Volume 28 (1-4), p. 42-50. 9 (Impact factor: 0.450)
  6. Wickramasinghe N.K.R.D and Handunnetti S.M. (2016). Role of Human Neutrophils in Inflammation and its Modulation by *Ixora coccinea* *Research and Reviews: Journal of Immunology*. 6(1): 32–48p. (Impact factor: 4.985)

### **Publications/ (no impact factor)**

1. Meththika Vithanage, Anushka Upamali Rajapaksha, Xiaomin Dou, Yong Sik Ok (2016). Potential of Biochar and Synthetic Iron Oxides for Chromium Immobilization in Tannery Waste Polluted Soil, *土壤及地下水污染整治*, 3 (1), p.45-58.

### **Conference proceedings/abstracts/extended abstracts**

None

## **DEPARTMENT OF MEDICAL LABORATORY SCIENCES**

### **Books/Book Chapters**

None

### **Publications with Impact Factor Citations**



None

### **Publications/ (no impact factor)**

1. Wimalasiri B.M.C.R., Dissanayake D.M. and Jayasekara K.B. (2016) Distribution of Statistical data on renal diseases in Anuradhapura District from 1999 to 2008. *Sri Lankan Bulletin of Nursing and Allied Health Sciences*. 2(1). p. 6-9.

### **Conference proceedings/abstracts/extended abstracts**

1. Fernando VAS, Fujiwara N. (2016). Imaging of the neuronal excitation propagation in mouse brain slices: Propagation pathway and the roles of GABA and glutamate receptors. *4<sup>th</sup> Conference on Sri Lanka Japan Collaborative Research*. Sri Lanka Japan Study Center, University of Peradeniya, 19- 21 August 2016.
2. Herath, H.M.S.P., Iddawela, W.M.D.R., Wickramasinghe, W.D.S.J., Pathirana, G. (2016). Establishment of PCR based technique for diagnosis of Trichomoniasis in patients attending the Sexually transmitted disease and Acquired Immune Deficiency Syndrome Control programme in Kandy. *Proceedings of the International Peradeniya University Research Sessions*. University of Peradeniya, 4-5 September 2016. p.204

## **DEPARTMENT OF NURSING**

### **Books/Book Chapters**

None

### **Publications with Impact Factor Citations**

1. Kumarasinghe Arachchigeey Sriyani, Nalika Gunawardena, Sudharshani Wasalathanthri, Priyadarshika Hettiarachchi (2016). Validation of Sinhala Version of Cardiff Wound Impact Schedule in Patients with Diabetic Leg and Foot Ulcers, *Asian Nursing Research*, v. 10(3), p. 240-245 (*impact factor: 0.849*)

### **Publications/ (no impact factor)**

1. Rathnayaka, SS, WKN Sajeewani, HAS Piyawardhana, NKSM Nissanka, BSS De Silva (2016). Life with Lost Voice: An Exploration of the Experiences of Patients with Total Laryngectomy, *OUSL Journal*, 11. p. 75-79.

2. Samarasekara, P.W.G.D.P., Seneviratne S.M.K.S., Munidasa, D., Williams S. S. (2016). Rehabilitation Nurses' perception regarding provision of psychological support for persons with spinal cord injury, *International Journal of Evidence-Based Healthcare: Volume 14*, p S27–S28 doi: 10.1097/01.XEB.0000511663.03012.c0

### **Conference proceedings/abstracts/extended abstracts**

1. Hewabatage, P. N., L. K. M. P. Gunawardhana, M. K. N. S. Gunarathna, E. M. S. Bandara, B. S. S. De Silva (2016). Reasons for primary sub-fertility among couples attending sub-fertility clinics at two government hospitals, *Proceed. Open University research Sessions*, p.160
2. Samarasekara, P.W.G.D.P., Seneviratne S.M.K.S., Munidasa, D., Williams S. S. (2016). Rehabilitation Nurses' perception regarding provision of psychological support for persons with spinal cord injury. *Proceedings of the International Conference on "Optimizing Health Care Quality: Teamwork in Education, Reach and Practice"*, Chiang Mai, Thailand, 22-24 June 2016. p.247 and in *International Journal of Evidence-Based Healthcare: Volume 14*, p S27–S28 doi: 10.1097/01.XEB.0000511663.03012.c0
3. Wijeweera, W.G.M.M.A.C., D.L.L. Dias, D.G.K. Krishanthi, K.G.P.K. Munidasa (2016). Prevalence and Perceived Associated Factors of Low Back Pain (LBP) Among Theatre Nurses in Three Teaching Hospitals in Western Province of Sri Lanka. *Proceedings of the 9<sup>th</sup> International Research Conference of the General Sir John Kotelawala Defence University on Professional Integration for a Secure Nation*, 8<sup>th</sup> – 9<sup>th</sup> September 2016. p.228
4. Gamage, H. S. L., B. M. L. K. Thilakarathne, S. M. P. Gayani, H. E. Yapa, P. W. G. D. P. Samarasekara (2016). Experiences of close relatives of adult patients admitted to an intensive care unit: a qualitative study. *Proceed. Open University Research Sessions*, p.1514
5. Sriyani, K.A., Hettiarachchi, P., Wasalathanthri, S., Weerasekera, D (2016). Effects of non-weight bearing leg and foot exercises on ulcer healing and its associated factors in patients with type 2 diabetes., *Biennial Conference of South Asian Association of Physiologist (SAAP)*

## **DEPARTMENT OF PHARMACY**

### **Books/Book Chapters**

None

### **Publications with Impact Factor Citations**

None

### **Publications/ (no impact factor)**

None

### **Conference proceedings/abstracts/extended abstracts**

1. Rathnayake, K.M., Wijesinghe, M.R., Wijesekera, R.D. (2016). An assessment of Cd and Pb accumulation in the Golden apple snail (*Pomacea diffusa*). Proceedings of the 36th Annual Sessions of the Institute of Biology Sri Lanka, 3rd October 2016. p.58

## **DEPARTMENT OF PSYCHOLOGY AND COUNSELING**

### **Books/Book Chapters**

None

### **Publications with Impact Factor Citations**

None

### **Publications/ (no impact factor)**

None

### **Conference proceedings/abstracts/extended abstracts**

1. Randeniya, D. & Gamage, G.P. (2016). Explicit and Implicit Attitudes towards Gender Based Violence: An Exploratory Study of Sri Lankan University Students. Proceedings of the International Conference on the Humanities and the Social Sciences (ICHSS). University of Peradeniya, Sri Lanka, 27 - 28 July 2016. P. 215-219
2. Gamage, G.P. (2016). Use of Psychology models in Dengue Health Education. In Dengue Research in Sri Lanka: Current & Emerging Trends Mini Symposium. Proceed Sri Lanka Association for Advancement in Science (Section D), October 28, 2016



**FACULTY OF  
HUMANITIES AND SOCIAL SCIENCES**



## FACULTY OF HUMANITIES AND SOCIAL SCIENCES

Department	Books/ Book Chapters	No. of Publications With Impact Factor Citations	No. of Publications/ (no impact factor)	Conference proceedings /abstracts/ extended abstracts
Department of Language Studies	00	00	00	07
Department of Legal Studies	00	00	08	17
Department of Management	00	04	20	07
Department of Social Studies	02	01	00	08
<b>Total</b>	<b>02</b>	<b>05</b>	<b>28</b>	<b>39</b>

### DEPARTMENT OF LANGUAGE STUDIES

#### Books/Book Chapters

None

#### Publications with Impact Factor Citations

None

#### Publications/ (no impact factor)

None

#### Conference proceedings/abstracts/extended abstracts

1. Bogamuwa, I.N.J. (2016). Investigating effectiveness of peer learning and teaching in teaching language classroom. Open University Research Sessions (OURS 2016), p.65
2. Medawattegedara, L. (2016). The Muslim giant: Analysis of the worldview represented in a selection of folktales attributed to the Muslim ethnic community in Sri Lanka, Open University Research Sessions (OURS 2016), p.36
3. Medawattegedara, L. (2016). Should my wives make a disturbance I will beat the whole of them...”: A Study of gender-based Violence in Sinhala Folktales. Proceed. to the Fifteenth National Convention on Women’s Studies, December 2016
4. Medawattegedara, L. (2016). Our pollution rules are different”: A Study of Caste as a ‘Lived Experience’ in a Sample of Sinhala Folktales. Presented at the International Centre for Ethnic Studies, Proceed. Conference on Caste, Social Justice and Democracy 19th & 20th November, 2016
5. Ratwatte, H.V. (2016) Is poor competency entirely due to external ‘methods’? Impact of Learner internal beliefs on learning ESL. Proceed to the 14<sup>th</sup> International Asia TEFL International Conference and 11<sup>th</sup> FEELTA International Conference. Vladivostok, Russia, 30<sup>th</sup> June, 2<sup>nd</sup> July, Far Eastern Federal University.
6. Ratwatte, H.V. (2016) Bilingual Pedagogy: Translanguaging in ESL. 2<sup>nd</sup> Conference on Bilingual Education, Ministry of Education, 23-24 June. Centre for Education and Leadership, Meepe.
7. Abeysekara, N.K. (2016). Face-to- Face Sessions in the Teaching and Learning of Listening and Speaking Skills through Distance Mode in the English for General Academic Purposes Classroom: Issues and Concerns, Proceed. 30<sup>th</sup> Annual Conference of Asian Association of Open Universities, 26-29 October 2016, Philippines

## **DEPARTMENT OF LEGAL STUDIES**

### **Books/Book Chapters**

None

### **Publications with Impact Factor Citations**

None

### **Publications/ (no impact factor)**

1. Kathirgamathamby, Y. (2016). Human smuggling – Implications on Rights of Migrants: An examination from the standpoint of International Law, OUSL, Vol 10, 93-114. Journal available at <http://digital.lib.ou.ac.lk/docs/handle/701300122/1309>
2. Goonetilleke, R.M.M.S.M.E. (2016). Maternity Legislation in Sri Lanka: Are Women Equal, Special or Different accepted for publication in the Open University Journal Vol 11, 53-78.



3. Panditharatne, W.N.G (2016). Hybrid Tribunal System as an Effective Alternative to International Tribunals for the Prosecution of International Crimes: An Overview, *Manurawa Annual Journal 2016, Published by the Law Students' Human Rights Movement, Sri Lanka Law College*
4. Panditharatne, W.N.G. (2016). Mechanisms set out in the Industrial Disputes Act of Sri Lanka for the Prevention and Settlement of Industrial disputes: An Overview, *BOC Legal News, Quarterly Publication of the Legal Department of Bank of Ceylon, Vol.29, 24.06.2016*
5. Wijesinghe, W. A. S. S. (2016). Dichotomy of International and Non-International Armed Conflicts in International Humanitarian Law: Contemporary Application, 'Manurawa' Human Rights Law Journal, 2016, Sri Lanka Law College, pp 131-138.
6. Wijesinghe, W. A. S. S. (2016). The War against Bio-Piracy and Protection of New Plant Varieties in Sri Lanka, 'Meezan' Annual Law Journal (50th edition), Sri Lanka Law College, pp 148-162.
7. Perera, R.L. (2016). Application of constructive and charitable trust in the globalized world Proceed. International Conference on Human Rights Citizenship and Democratization organized by Centre for the Study of Human Rights, University of Colombo, Manurawa Journal of the Law Students' Human Rights Movement of Sri Lanka Law College, 2016.
8. Dilrukshi, K.G.T (2016). Application of constructive and charitable trust in the globalized world" for Manurawa Journal of the Law Students' Human Rights Movement of Sri Lanka, Law College.

### **Conference proceedings/abstracts/extended abstracts**

1. Gamalath, H.N.D. (2016). Protection of Human Rights of People Living with HIV/AIDS in Sri Lanka; special reference to the international standads, Proceed. 2<sup>nd</sup> international Conference on Public Health held from 28th to 29 July 2016 in Colombo, Sri Lanka.
2. Gamalath, H.N.D. (2016). Freedom of religion in Sri Lanka with special reference to international standards, Proceed. 2<sup>nd</sup> international conference on the Humanities: New Directions in the Humanities: our Engagement with the Environmental held from 6th and 7th October 2016 in the University of Kelaniya.
3. Gamalath, H.N.D. (2016). Analyzing of Educational and Legislative Policies relating to Physical Disabled Children in Sri Lanka. Proceed. 2<sup>nd</sup> International Conference on Public Health Equity in Education, ICOPH 2016 ISBN 978-955-4903-58-6
4. Hewameella, S. (2016). Role of NGO's and Non State Actors in Contemporary International Law, Proceed. 2<sup>nd</sup> Annual International Conference on Education – held on 21<sup>st</sup> – 22<sup>nd</sup> April 2016 in Bangkok, Thailand.
5. Hewameella, S. (2016). Control of water pollution: Constitutional aspect in India, Proceed 7<sup>th</sup> International Conference on Sustainable Built Environment, University of Peradeniya, Kandy, Sri Lanka.

6. De Silva, E.N.R. (2016). Using Moot court as a pedagogic tool in Sri Lankan Legal Education curriculum: Issues and Challenges, Proceed. International seminar on “Critical Reflections on the Methodology of Teaching Law’ in India. National Law School of India University, Bengaluru
7. Selvaras, Janaka (2016). Incorporating International Environmental Obligations into Bilateral Investment Treaties: An appraisal on South Asia with special reference to sustainable development Goals (SDGs), Proceed. Young Researcher’s South Asian Symposium (SDGs), New Delhi, India.
8. Ariyaratna, B. A. R. R. (2016). Contracting in Cyber Space: A Comparative Analysis of Electronic Transaction Law in Sri Lanka. Proceed. 9<sup>th</sup> International Research Conference, General Sir John Kothalawala Defence University, 8<sup>th</sup> & 9<sup>th</sup> September 2016, p.280.
9. Wijesinghe, W. A. S. S. and B. A. R. R. Ariyaratna (2016). Applicability of international humanitarian law in a context of noninternational armed conflicts: An overview, Open University Research Sessions (OURS 2016), p.29-33.
10. Wijesinghe, W. A. S. S. and B. A. R. R. Ariyaratna (2016). Balancing Intellectual Property Rights and Public Interest: An Overview, Second International Multidisciplinary Law Conference- 2016, *‘Interdisciplinary Intergration for Legal Enrichment’*, Symbiosis Law School, Hyderabad, India, Conference proceedings, pp.317-330
11. Wijesinghe, W. A. S. S. (2016). Intersection of Trademark Rights, Right to Health and Principle of Proportionality: A Sri Lankan Perspective, Asian Society of International Law Regional Conference-, Proceed. International Law and a Dynamic Asia', 14-15 June 2016, Hanoi, Vietnam.
12. Dilrukshi, K.G.T (2016). Judicial process is vital for the control and elimination of environmental pollution: A comparative analysis of Sri Lankan position with India” for Proceed. Wayamba University International Conference (WINC)-2016.
13. Dilrukshi, K.G.T (2016). A Harmonious balance of Positivism and Natural Law is extremely crucial to build a high- quality ruler, Proceed. advanced studies in Humanities and Social sciences, National Symposium 2016.
14. Nazeem, Ruzna (2016). Necessity of Enhancing the Security of Fundamental Rights under the Constitution of Sri Lanka to Achieve Good Governance, Proceed. Research Symposium of the National Centre for Advanced Studies (NCAS)
15. Geethani Jeewanthi (2016). Sri Lanka needs more women Representation in Politics. Proceed. Multidisciplinary Research Conference organised by the Unique Conference Canada with International Centre for Research and Development of Sri Lanka
16. Geethani Jeewanthi (2016). Independence of judiciary: Evaluation on the 17<sup>th</sup>, 18<sup>th</sup> and 19<sup>th</sup> Amendments to the 1978 Constitution of Sri Lanka, Proceed. 9<sup>th</sup> Annual Research Conference on the Humanities and Social Sciences of the Royal Asiatic Society of Sri Lanka
17. Geethani Jeewanthi (2016). Discrimination in Property Alienation, 2<sup>nd</sup> World Conference on Women’s Studies

## DEPARTMENT OF MANAGEMENT

### Books/Book Chapters

None

### Publications with Impact Factor Citations

1. Sapukotanage, S. Warnakulasuriya, N. F. Yapa, T. W. S., (2016). A Conceptual Model for Understanding the Outcomes of Buyer-supplier Relationships in Supply Chains. *International Business Research* 9, 72-83. (Impact Factor 0.65)
2. Farook, F.S. and Abeysekera, N., (2016). Influence of Social Media Marketing on Customer Engagement. *International Journal of Business and Management Invention*. 5, 115-125. (impact factor 1.482)
3. Rajmohan, R., and Abeysekera, N., (2016). Impact of the Quality of University Education on Labour Market in Sri Lanka, *International Journal of Business and Management Invention Vol.5, Iss 9, PP 71-76. (impact factor 1.482)*
4. Eranda, N., and Abeysekera, N. (2016). Strategic Corporate Social Responsibility Creates Social Value in Local Sri Lankan Dairy Industry: A Case Study of Lucky Lanka, *International Journal of Business and Management Invention, Vol. 5, No.8.1-11 (impact factor 1.482)*

### Publications/ (no impact factor)

1. Gamini, L.P.S and Sridharan, S (2016) Quality Improvement Programme in Government Hospitals of Sri Lanka: Enablers and Barriers. , Volume 1-Issue (I) Department of Management Studies, The Open University of Sri Lanka
2. Gamini, L. P. S and Herath, S. (2016).Brand Awareness: The Impact of Promotional Strategies. , Management Issues, Volume 1-Issue (I) Department of Management Studies, The Open University of Sri Lanka.
3. Gamini, L. P. S and D. P. B. K Peiris, (2016), Managing Time and Knowledge: The Role of Line Management in Implementing Performance Management., Management Issues, Volume 1-Issue (I) Department of Management Studies, The Open University of Sri Lanka.
4. Gamini, L. P. S and Sirisena, M.G.,(2016), The Style of Leadership and Its Impact on Employee Engagement of Rubber Regional Plantation, Companies Of Sri Lanka., Management Issues, Volume 1-Issue (I) Department of Management Studies, The Open University of Sri Lanka.
5. Sivalogathan, V. (2016). Self-Development Model for Improve Leadership Skills of Executives Managers: Comparison Study in two different countries - Sri Lanka and China, *Journal of Management - Vol. 12 No.2 October 2015, South Eastern University, Oluvil, Sri Lanka.*

6. Sivalogathan, V (2016). How to Improve Innovation Capability?: The Role of Intellectual Capital and Organizational Motivation of Manufacturing Firms in Sri Lanka, *Journal of Business Management, the paper presented at the International Conference on Contemporary Management (ICCM2016), University of Jaffna, 28-29 July 2016, Jaffna, Sri Lanka*
7. Sivalogathan, V. and Samanmali, E. (2016). Managing Time and Knowledge: The Role of Line Management In Implementing Performance Management, *Management Issues, Volume 1-Issue (I) Department of Management Studies, The Open University of Sri Lanka*
8. Sivalogathan, V. and Ariyadasa, N. (2016). Work Life Balance And Its Effects On Service Delivery: A Study Based On Private Sector Bank In Sri Lanka, *Management Issues, Volume 1-Issue (I) Department of Management Studies, The Open University of Sri Lanka*
9. Sivalogathan, V. and J.W.Y.K. De Silva (2016). Save Executives: Retention of Planting Executives in Regional Planation Companies in Sri Lanka, *Management Issues, Volume 1-Issue (I) Department of Management Studies, The Open University of Sri Lanka.*
10. Sapukotange, S., Kalana, S.A.I. (2016). Brand Awareness: The Impact of Promotional Strategies. , *Management Issues, Volume 1-Issue (I) Department of Management Studies, The Open University of Sri Lanka.*
11. Perera, P., Abeysekera, N., Samarasinge, D., (2016). Potential association of private universities branding efforts with perception and attitudes of prospective students: A study in Sri Lanka. *Management & Marketing, 14, 164-179.*
12. Kavisekera, S., Abeysekera, N., (2016). Effect of social media marketing on brand equity of online companies. *Management & Marketing, 14, 201-216.*
13. Thilakarane, C., Abeysekera, N. (2016). Influencing Factors For Customer Satisfaction of Mobile-money Services, With Special Reference to Mcash Service By Mobitel, Sri Lanka, *ELK Asia Pacific Journal of Marketing and Retail Management, 7(2), 1-18*
14. Jayathilake, N., Abeysekera, N., Samarasinghe, D., Ukwatte, J. (2016). Factors affecting for Customer Loyalty in Sri Lankan Banking sector, *International Journal of Marketing and Technology, 6(4):148-167*
15. Ekanayake, S., Abeysekera, N. (2016). Consumer engagement with social media, brand equity and intention to purchase, *Sri Lankan Journal of Management ,Vol 21, No 1.*
16. Liyanagamage, C. (2016). The Effect of Concentration and Efficiency of State Banking on Bank Competition in Sri Lanka, *IOSR Journal of Economics and Finance Volume 7, Issue 6 2016, PP 52-58*
17. Senevirathne, W.A.R. and Jayendrika, W.A.D.K, (2016). The analysis of factors that influence on financial exclusion in Sri Lankan banking sector *Journal of Accountancy & Finance, Volume 2 Issue 1 Published by the Department of Accountancy, Wayamba University of Sri Lanka.*
18. Senevirathne, W.A.R., Jayendrika, W.A.D.K, and Silva, G.A.J. (2016). Impact of financial socialization agents towards financial literacy among young micro business

- entrepreneurs in Colombo district in Sri Lanka - *Journal of Accountancy & Finance, Volume 2 Issue II Published by the Department of Accountancy, Wayamba University of Sri Lanka.*
19. Abeysekera N., Dammike, M. K., and Indika, K. (2016). The Style of Leadership and Its Impact on Employee Engagement of Rubber Regional Plantation Companies Of Sri Lanka., *Management Issues, Volume 1-Issue (I) Department of Management Studies, The Open University of Sri Lanka.*
  20. Bataduwa Arachchi, D. L., Ranjana, R. A. A. (2016). Employability of Women Graduates of Technical Colleges in TVET Sector of Sri Lanka., *Management Issues, Volume 1-Issue (I) Department of Management Studies, The Open University of Sri Lanka.*

### **Conference proceedings/abstracts/extended abstracts**

1. Sivalogathan, V. and Senanayake, S.A.D (2016). Achievement will Motivate: The impact of Non- Financial Rewards on Motivation of Employees in the Selected Private Company. *Proceed. Jaffna University International Conference (JUICE 2016), University of Jaffna, 12-13 August 2016, Jaffna, Sri Lanka*
2. Abeysekera N., Samarasinghe, D. (2016). Customer orientation and gender, *Open University Research Sessions (OURS 2016)*, p. 26.
3. Ukwatte, J., Abeysekera, N. (2016). The impact of service quality on customer loyalty in Sri Lankan hotel sector (with special reference to ABC hotel in Sri Lanka)., *Proceed. 9<sup>th</sup> International Research Conference of The General Sir John Kotelawala Defense University, Sri Lanka.*
4. Senevirathne, W.A.R. and Jayendrika, W.A.D.K (2016). Financial Literacy and Success of Micro Business: Evidence from Small Enterprises in Sri Lanka –*proceed. 1st Intra disciplinary Conference of Management Researchers (ICMR 2016) Organized by Sabaragamuwa University of Sri Lanka, 10-11 August 2016.*
5. Senevirathne, W.A.R. and Jayendrika, W.A.D.K. (2016). Business owners' perceived financial literacy on financial well-being of micro enterprises in Sri Lanka – *proceed. 2nd Wayamba International Conference (WinC 2016), Organized by Wayamba University of Sri Lanka, 19-20 August 2016.*
6. Senevirathne, W.A.R., Gamini, L.P.S and Jayendrika W.A.D.K. (2016). Sustaining micro enterprises of women entrepreneurs through financial literacy *proceed. Annual Research Session of the Open University of Sri Lanka*
7. Abeykoon, M.W.M., Alwis, A.C. (2016). Impact of Students'perceived Quality of Distance Education on Student Satisfaction with Special Reference to Undergraduate Students of Bachelor of Management Studies Degree programme, The Open University of Sri Lanka, *Proceed 3<sup>rd</sup> International conference on contemporary Management (ICCM), Faculty of Management Studies and Commerce, University of Jaffna.*

## DEPARTMENT OF SOCIAL STUDIES

### Books/Book Chapters

1. Piyaratne, Anton (2016). Rethinking ethnicities and everyday life-world of the people who live in Sri Lanka, A Country involved in an ethno- political crisis, *In: Felicitation volume of Senior Professor A.K.G. Jayasinghe, (Kumara, N.V.G.A.H., Wijesundara C.G and Premarathne M.T.K (eds), Department of Sociology, University of Ruhuna, Matara, Sri Lanka, p. 270-297.*
2. Madhubhashini, G.T (2016). Digital Divide: Internet Diffusion in Sri Lanka. Godage Publishers (in print)

### Publications with Impact Factor Citations

None

### Publications/ (no impact factor)

1. Arangala, R. Madhubhashini, G.T. Gunawardene, N. Siddhisena, K.A.P. Weerasinghe, P.N. and Welagedara, K., (2016). Assessment of the Broadcast Ratings System in Sri Lanka. Sri Lanka: Department of Government Information.

### Conference proceedings/abstracts/extended abstracts

1. Mendis, B.M.P. (2016). Media and Society: Concerted Thinking and collaborative work, *Proceed. International Research Conference on Humanities and Social Sciences organized by the University of Sri Jayawardenapura, Sri Lanka.*
2. Piyaratne, Anton (2016). Caste as a Way of Transcending Ethno- national Barriers to construct Community: A case on the Eastern Coast of Sri- Lanka: Struggle for Constructing “Home” in ethno nationally divided Sri Lanka, *Proceed. International Conference on “Caste, Social Justice and Democracy in Sri Lanka”* Organized by International Center for Ethnic Studies (ICES) between 19<sup>th</sup>- 20<sup>th</sup> November 2016.
3. Piyaratne, Anton (2016). Ankeliya: Rubbing Along of “Sinhala Buddhist” and “Tamil Hindu” Cultures in an Ethno-Religiously Divided Nation, *Proceed. 2<sup>nd</sup> International Conference of the Faculty of Humanities and Social Sciences* under the main theme “Peace, Reconciliation and Development Challenges” ICPRD- 2016 AT University of Ruhuna on 24<sup>th</sup> and 26<sup>th</sup> March 2016.
4. Welikala, Sepalika (2016). Community Mediation as a Hybrid practice: The case of Mediation Boards in Sri Lanka, *Asian Journal of Law and Society, vol.xx, p.xx*
5. Arangala, R., Madhubhashini, G.T., Gunawardene, N., Siddhisena, K.A.P., Weerasinghe, P.N. and Welagedara, K. (2016). Assessment of the Broadcast Ratings System in Sri Lanka. Sri Lanka: Department of Government Information.

6. Pathmanesan, S. and Justin Henry (2016). Reclaiming Rāvaṇa: Indigenism, Geography and the National Past in Indian and Sri Lankan Tamil Discourse on the Ramayana, *Proceed. the Ramayana in Sri Lanka workshop, Salon Jasmin, Galadari Hotel, Colombo, Sri Lanka* July 22, 2016.
7. Pathmanesan, S. (2016). The Rise, Decay, and Reform of Ilantari and Annamar in Jaffna. *Proceed. 45<sup>th</sup> Annual Conference on South Asia, organized by Center for South Asia, University of Wisconsin-Madison* October 21, 2016.
8. Koswatta, H.M.A.T. (2016). Public Spending and Economic Prosperity Special Reference to Post -Independence Sri Lanka. *Proceed. OUSL Research Sessions OURS 2016.*





# **FACULTY OF NATURAL SCIENCES**



## FACULTY OF NATURAL SCIENCES

Department	Books/ Book Chapters	No. of Publications With Impact Factor Citations	No. of Publications/ (no impact factor)	Conference proceedings /abstracts/ extended abstracts
Department of Botany	03	02	19	23
Department of Chemistry	00	03	07	12
Department of Mathematics	00	01	05	05
Department of Physics	00	06	07	15
Department of Zoology	00	04	03	11
<b>Total</b>	<b>03</b>	<b>17</b>	<b>41</b>	<b>66</b>

### DEPARTMENT OF BOTANY

#### Books/Book Chapters

1. Herat, T.R., Daulagala, P.W.H.K.P., Samanthi, D., (2016). An illustrated guide to the flowering trees around Kandy lake Sri Lanka. Tissa R. Herat., 89pp. ISBN: 9789559914471
2. Adikaram, N and Karunanayake C. (2016) Natural Antifungal systems in fruits and their utilization in the management of postharvest diseases. In: Perspective of plant pathology in genomaic Era. Eds. Chowdappa, P., Sharma, P., Singh, D. and Misra A.K. 469-487. Today and Tomorrow printers, New Delhi, India. ISBN 9788170195269.
3. Weerakoon, Shyama R. (2016). *nv \k \times @Xq aöjnn ñl[Rm sh \times @y~°k q#Ðm, S. Godage & Sons (PVT.) Ltd, ISBN 978-955-30-7118-7*

#### Publications with Impact Factor Citations

1. Kuruppuarachchi, K.A.J.M, Gamini Seneviratne, Buddhika D. Madurapperuma (2016). Carbon sequestration in tropical forest studies: Its control by plant soil and climate factors, *Open Journal of Forestry*, 2016, 6, 59-71 Published Online April 2016 in Sci Res. <http://www.scirp.org/journal/ojf> <http://dx.doi.org/10.4236/ojf.2016.62006> (*Impact Factor: 0.72*)

- Perera, K., Amarasinghe, M.D., (2016). Atmospheric carbon removal capacity of a mangrove ecosystem in a micro-tidal basin estuary in Sri Lanka. *Atmospheric Environment*, 134, 121-128. (*Impact Factor: 3.459*)

### **Publications/ (no impact factor)**

- Don Paul, A.M., Weerakoon, S.R. Somaratne, S., (2016). Antioxidant Properties of Leaf, Twig and Calli Extracts of *Neolamarckia cadamba* (Roxb.) Bosser in Sri Lanka. *Research Journal of Medicinal Plants*, 10, 314-319. DOI: 10.3923/rjmp.2016.314.319
- Zoysa, D.S.S., Weerasinghe, T.K., (2016). Study on the chemical and biological status of Malwatu oya basin, Anuradhapura in Sri Lanka. *British Journal of Environmental Sciences*, 4, 1-10.
- Alwis, A.D.P.S., Perera, O.D.A.N., Weerahewa, H.L.D., (2016). Development of a Novel Carrot-based Synbiotic Beverage using *Lactobacillus casei* 431®. *Journal of Agricultural Sciences*. 11(3), pp.178–185. DOI: <http://doi.org/10.4038/jas.v11i3.8171>
- Jayawardana, R.K., Weerahewa, D., Saparamadu, J. (2016) The effect of rice hull as a silicon source on anthracnose disease resistance and some growth and fruit parameters of capsicum grown in simplified hydroponics. *International Journal of Recycling of Organic Waste in Agriculture*, 5: 9-15. doi:10.1007/s40093-015-0112-4
- Weerahewa, D., Somapala, K., (2016). Role of Silicon on Enhancing Disease Resistance in Tropical Fruits and Vegetables: A Review. *OUSL Journal*, 11, 135 - 162. <http://digital.lib.ou.ac.lk/docs/handle/701300122/1350>
- Weerahewa, D., (2016). Floricultural Quality Traits and Probing Mechanisms of Silicon Mediated Disease Resistance of *Dendrobium*. *OUSL Journal*. 10, pp.23–40. <http://doi.org/10.4038/ouslj.v10i0.7333>
- Somapala, K. S., Weerahewa, H. L. D., Thrikawala, S. (2016). Enhanced resistance against anthracnose disease in chili pepper (*Capsicum annum* L.) by soil application of potassium. *International Journal of Agriculture, Forestry and Plantation*. v. 11, p.35-39.
- Mihirani, M K S, Gamage Perera, ODAN and Weerahewa, H.L.D. (2016). Development of synbiotic beverage from beet root juice using beneficial probiotic *Lactobacillus Casei* 431 Ruhuna *Journal of Science*, Vol 07, Issue 02, p.70-75
- Jayawardana, H A R K and Weerahewa H L D (2016). Improving resistance to anthracnose disease in chillie pepper (*Capsicum annum* L.) grown in soil amended with raw rice hull as a source of silicon. *Ruhuna Journal of Science* Vol 07, Issue 02, p. 64-69
- Karunanayake, L.C., Sinniah, G.D., Adikaram, N.K.B. and Abayasekara, C.L. (2016). Alternatives to synthetic fungicides in controlling postharvest anthracnose and stem-end rot in mango. *Acta Horticulturae* 1144, 67. 453-459.
- Madurapperumaa, B.D., Kurupparachchi, K.A.J.M., (2016). Rehabilitating a landfill site of lowland tropical landscape into an urban green space: A case study

- from the Open University of Sri Lanka. *International Journal of Sustainable Built Environment*. 5, 400-410.
12. Aravinda Ravibhanu Sumanarathna, Buddhika Madurapperuma, Janaka Kuruppuarachchi, Jinadasa Katupotha, S.M.K.Abeywardhana, Pathmakumara Jayasinghe (2016). Morphological variation and speciation of Acavidae family: A case study from fossil and living species of Batadombalena cave pre-historic site in Sri Lanka, *Annals of Valahia University of Targoviste. Geographical Series*, 16(2): 59-68:DOI: 10.1515/avutgs-2016-0005 ISSN (Print): 2393-1485, ISSN (Online): 2393-1493
  13. De Mel, P.K.J. and K.A.J.M. Kuruppuarachchi (2016). High tree endemism recorded in Kanana Kanda Isolated forest fragment in wet zone of Sri Lanka, *The International Journal of Agriculture, Forestry and Plantation (IJAFP)*, Malaysia, Volume 2 , 115-121.
  14. Kuruppuarachchi, K.A.J.M., Madurapperuma B.D (2016). Floristic composition and biomass carbon sequestration of Borella cemetery in Colombo district, Sri Lanka., *The International Journal of Agriculture, Forestry and Plantation (IJAFP)*, Volume 2, 181-187.
  15. Prasad Senadheera, Malinda Kumarasinghe, J. Wattewidanage, PPDC Perera, TK Weerasinghe (2016). User-friendly bioinformatics OER for Open and Distance Learners, AAOU 2016
  16. Karunaratne, K. D. K., Weerakoon, S. R., Somaratne, S. and Weerasena, O. V. D. S. J. (2016). Distribution Patterns and Genetic relationships of weedy rice (*Oryza sativa* f. *spontanea*) populations in different climatic zones in Sri Lanka. . *International Journal of Current Research*. Vol. 8(12), 42777-42783.
  17. Weerakoon, S.R., Somaratne, S., Peiris, P.K.D. and Weerasena, O.V.D.S.J. (2016). The ecological provenance of phenotypic and genotypic variation in mustard [*Brassica juncea* (L.) Czern. & Coss.] accessions in Sri Lanka. *Acta Hort.* 1127, 503-504. DOI: 10.17660/ActaHortic.2016.1127.79. <https://doi.org/10.17660/ActaHortic.2016.1127.79>
  18. Somaratne, S. and Weerakoon, S. R. (2016) Impacts of recent and anticipated changes in atmospheric CO2 concentrations on growth performance of Weedy Rice (*Oryzasativa* f. *spontanea*) biotypes in Sri Lanka. *International Journal of Current Research*. Vol. 8 (12), 43371-43376.
  19. Ekanayaka, E. M. S. I., Weerakoon, S. R., Silva, T. D. and Somaratne, S. (2016). Induction of Herbicide resistance via seed-derived rice (*Oryza sativa*) calli. *IRA-International Journal of Applied Sciences*, Vol. 3(3). doi:<http://dx.doi.org/10.21013/jas.v3.n3.p15>.

### Conference proceedings/abstracts/extended abstracts

1. Ekanayaka, S.I., Weerakoon, S.R. Somarathne, S., Weerasena, O.V.D.S.J., Silva, T.D., (2016). In vivo and in vitro application of a mutagen to induce herbicide resistance in Sri Lankan rice (*Oryza sativa* L.) varieties. 20th Australasian Weeds Conference, Perth, Western Australia, 11-15 September 2016, 89-92.

2. P. G. M. Kalpani, S. R. Weerakoon, S. Somaratne, N. Nilakarawasam, C. Ranasinghe (2016). Preliminary study on the effect of methanolic extracts of barks of *Phyllanthus reticulatus* and *bridelia retusa* on serum lipid profiles in hypercholesterolemic rats (*Mus norvegicus albinus*)., Proceed. Open University Research Sessions, p.119.
3. Jayawardana, H.A.R.K., Weerahewa, H.L.D., Saparamadu, M.D.J.S., (2016). The Mechanisms Underlying the Anthracnose Disease Reduction by Rice Hull as a Silicon Source in Capsicum (*Capsicum Annuum L.*) Grown in Simplified Hydroponics. International Conference of Sabaragamuwa University of Sri Lanka 2015 (ICSUSL 2015), *Procedia Food Science*, 6, 147-150.
4. Somapala, K. S., Weerahewa, H. L. D., Thrikawala, S., (2016). Silicon Rich Rice Hull Amended Soil Enhances Anthracnose Resistance in Tomato. International Conference of Sabaragamuwa University of Sri Lanka 2015 (ICSUSL 2015), *Procedia Food Science* 6, 190 – 193.
5. Karunaratna A.V.A.1, Wijayawardene N.N., Weerahewa H.L.D. and Hyde K.D. (2016). Preliminary Survey of Conidial Fungi in Weligama Mangrove Forest Indicates Higher Micro-Flora Diversity, 21<sup>st</sup> International Forestry & Environment Symposium, USJ, 23<sup>rd</sup> and 24<sup>th</sup> Sept. 2016, p. 11.
6. Darshani Weerahewa, Sunil Thrikawala, Niranjala Perera and Prasad Dias (2016) Effect of soil application of potassium and silicon on pre and post harvest qualities of tomato (*Lycopersicon esculentum L.*), capsicum (*Capsicum annuum L.*) and leeks (*Allium porrum L.*) Proceedings of NSF Research Summit held on 7-8 July 2016. pg 78
7. Darshani Weerahewa Janakie Saparamadu and Ruwani Kalpana Jayawardana (2016). Effect of silicon on postharvest quality of hydroponically grown chillie pepper (*Capsicum annuum L.*) Proceedings of NSF Research Summit 2016 held on 7-8 July 2016. pg 79
8. Weerahewa, HLD and Rajapakse, RPSS (2016). A new record on Silicon bodies (Phytoliths) from silicon treated leeks (*Allium porrum*). 2<sup>nd</sup> International Wayamba Conference, 2016 August 19-20 , pg 310
9. Weerahewa. HLD; Rajapakse, RPSS; Rajakaruna, S; Dias, P Perera, ODAN (2016). Enhancing Postharvest quality of field grown leeks (*Allium porrum*) by Incorporating partially-burnt rice hull as a low cost silicon source. 2<sup>nd</sup> International Wayamba Conference 2016 August 19-20 , pg 309.
10. Fasreen, M.M. F., Perera, O.D.A.N and Weerahewa, H L D. (2016). Development of Finger Millet based Probiotic Beverage using *Lacto bacillus casei* 431<sup>®</sup> Undergraduate Research Symposium, Wayamba University of Sri Lanka, Makandura
11. Somapala, K.S., Weerahewa, H L D and Thrikawala, S. (2016). Enhanced resistance against anthracnose disease in chili pepper (*Capsicum annuum L.*) by soil application of potassium. Proceedings of the 2<sup>nd</sup> Kuala Lumpur International Agriculture, Forestry and Plantation Conference.
12. Madurapperumaa, B.D., Kurupparachchi, K.A.J.M., Herath W.N. (2016). Comparative study on plant diversity and their uses in homegardens of Delgoda and Kaduwela areas in Sri Lanka, Proceedings of the annual academic sessions of the

- Open University of Sri Lanka Colombo, Sri Lanka, 17–18 November 2016, p.176-178
13. Kuruppuarachchi, K. A. J. M. Dias, P. Kannangara, C.N. (2016). Exploring the input of Open Distance Learning processing system of the Open University, Sri Lanka: Detecting possible influential factors for registering students for the BSc Degree program , Proceedings of the annual academic sessions of the Open University of Sri Lanka Colombo, Sri Lanka, 17–18 November 2016, p
  14. Madurapperumaa, B.D., Kuruppuarachchi, K.A.J.M., Herath W.N. Wijayatunga,L., Ranaweera, T., Sirimanna,R. Sumanaratne, A.R. (2016). Arboricultural assessment of street trees in Colombo city, 21<sup>st</sup> International Forestry & Environment Symposium, USJ, 23<sup>rd</sup> and 24<sup>th</sup> Sept. 2016, p. 130
  15. Kanthika W.A.L., Kuruppuarachchi K.A.J.M., Dharmasena M.C.M. and Cooray M.G. (2016). Dragonfly (Odonata) species diversity in different land use patterns of lowland tropical wet zone, Colombo District of Sri Lanka, 21<sup>st</sup> International Forestry & Environment Symposium, USJ, 23<sup>rd</sup> and 24<sup>th</sup> Sept. 2016, p. 30.
  16. Herath W.N., Madurapperumaa, B.D., Kuruppuarachchi, K.A.J.M., D. I. K. Solangaarachchi (2016). Small household resilience gardens in Delgoda, Gampaha District: An ethnobotanical perspective, Wayamba International Conference, 2016, Wayamba University, 19<sup>th</sup>-20<sup>th</sup> August,2016, Kuliyaipitiya, Sri Lanka.
  17. Madurapperumaa, B.D., Kuruppuarachchi, K.A.J.M. (2016). Urban greenness survey in Colombo City of Sri Lanka : Top down and bottom up approach., International Education Week: Humboldt State University, USA, Feb. 15-19, 2016.
  18. Kuruppuarachchi,K.A.J.M., Madurapperuma B.D (2016) Floristic composition and biomass carbon sequestration of Borella cemetery in Colombo district, Sri Lanka, 2nd Kuala Lumpur International Agriculture, Forestry and Plantation Conference, Kuala Lumpur, Malaysia (Abstract published/ orally presented).
  19. De Mel, P.K.J. and K.A.J.M. Kuruppuarachchi (2016) High tree endemism recorded in Kanana Kanda Isolated forest fragment in wet zone of Sri Lanka, 2nd Kuala Lumpur International Agriculture, Forestry and Plantation Conference, Kuala Lumpur, Malaysia.
  20. Karunaratne, K. D. K., Weerakoon, S. R., Weerasena, O. V. D. S. J. and Somaratne, S. (2016). Multiple origin of weedy rice (*Oryza sativa f. spontanea*) in Sri Lanka. *7th Global Summit on Agriculture & Horticulture, Kuala Lumpur, Malaysia, 17th to 19th October, 2016*. Pp. 42.
  21. Weerakoon, S. R. and S. Somaratne (2016). Effect of Changing Atmospheric CO2 concentrations on Growth Performance of Weedy Rice (*Oryza sativa f. spontanea*) in Sri Lanka. National Conference on Geospatial Sciences & Disaster Management, 19th January, 2016. Pp. 10.
  22. Ekanayaka, E. M. S. I., Weerakoon, S. R., Weerasena, O. V. D. S. J. and Somaratne, S. (2016). Identification of AFLP marker/s to differentiate herbicide resistant Sri Lankan rice (*Oryza sativa* L.) varieties. Proceeding of the 8th IBMBB Annual Scientific Sessions, 27th May, 2016. Pp. 24.

23. Munasinghe, S. P., Somaratne, S. and Weerakoon, S. R. (2016). Drought resistance and salinity tolerance of selected Sri Lankan rice (*Oryza sativa* L.) landraces. *Sri Lanka Institute of Biology 36th Annual Sessions* : 38.

## DEPARTMENT OF CHEMISTRY

### Books/Book Chapters

None

### Publications with Impact Factor Citations

1. Shekhar-Gujurja, T., Gunaherath, G.M.K.B., Wijeratne, E.M.K., Lambert, J.P., Averette, A.F., Lee, C.H., Kim, T. Bahn, Y. Tripodi, F. Ammar, R., Döhl, K., Niewola-Staszewska, K., Schmitt, L., Loewith, R.J. Roth, Sanglard, F.P.D., Andes, D., Nislow, C., Cocchetti, P., Gingras, A., Heitman, J., Gunatilaka, A.L., Cowen, L.E., (2016). Dual action antifungal small molecule modulates multidrug efflux and TOR signaling. *Nature Chemical Biology*, 12, 867–875 (*Impact Factor* 12.709)
2. Wijeratne, E.M.K., Gunaherath, G.M.K.B., Chapla, V.M., Tillotson, J., Fabian De La Cruz, Kang, M., Jana M U' Ren, Araujo, A.R., Arnold, A.E., Chapman, E., Gunatilaka, A.S., (2016). Oxaspirol B with p97 Inhibitory Activity and Other Oxaspirols from *Lecythophora* sp. FL1375 and FL1031, Endolichenic Fungi Inhabiting *Parmotrema tinctorum* and *Cladonia evansii*. *Journal of natural products*, 79, 340-352. (*Impact Factor* 3.662)
3. Hettiarachchi, S.R., Maher, W., Krikowa, F., Ubrihien, R., (2016). Factors influencing arsenic concentrations and species in mangrove surface sediments from south-east NSW, Australia. *Environmental geochemistry and health*, 1-11. (*Impact Factor* 2.079)

### Publications/ (no impact factor)

1. Amith, S. Perera, S.D. (2016). The Green is the new Red: Better Chemistry for a Greener World, OUSL Journal, Vol. 10. <http://digital.lib.ou.ac.lk/docs/handle/701300122/1244>
2. Pradeep, R., Perera, S.D., (2016). Synthetic Analogues of Cannabinoids and Cathinones. *Chemistry in Sri Lanka*, 3(1), 28-31.
3. Thilakarathna, A.J.P. Perera, Sarath D. (2016). The good, the bad and the ugly cosmetics, OUSL Journal, Vol 11
4. Pradeep, R.G.G.R. and Perera, Sarath D (2016). Drug abuse, addiction and the magic of 'getting high', OUSL Journal, Vol 11
5. Hettiarachchi, S.R., Wadige, C.P.M.M., (2016). Arsenic uptake and speciation in *Oriza Sativa* L. grown in Wahalkada, Sri Lanka. *International Research Journal of Natural and Applied Sciences* Vol. 3, Issue 10, 197-211.



6. Samanthika R. Hettiarachchi and Darshani Weerahewa (2016). Effect of Na<sub>2</sub>SiO<sub>3</sub> on heavy metal uptake by field grown *Basella alba* L. in Matara, Sri Lanka. *Ruhuna Journal of Science*, Vol 07, Issue 02, p. 21-31
7. Abeysinghe, T., Hong, B., Wang, Z., Kohen, A., (2016). Preserved hydride transfer mechanism in evolutionarily divergent thymidylate synthases. *Current Topics in Biochemical Research*, 17, 19-30.

### **Conference proceedings/abstracts/extended abstracts**

1. Perera, K.S.D. (2016). Polythiophene films containing anthraquinone groups, poster presentation at RISTCON 2016, University of Ruhuna, Matara, Sri Lanka, 28 January 2016
2. Chathuranga, P.K.D. (2016). M.C.M. Iqbal, N. Priyantha, S.S. Iqbal (2016) Removal of aqueous chromium III by non living *Cabomba calroliniana*, Conference: 5th Intern. Symp. Water Quality and Human Health, Challenges Ahead, 5<sup>th</sup> and 6<sup>th</sup> of August-2016. At Kandy, Sri Lanka, Volume: 5, p.54.
3. Tantrigoda (2016). Study of level of perception of conceptual models in Chemistry among the students in the B.Sc. Degree Programme (2014/2016) of the Open University of Sri Lanka, 24th IUPAC International Conference on Chemistry Education 9ICCE (2016), Malaysian Institute of Chemistry, Kualampur, August 2016.
4. Bandarage, G., (2016). Prevalence and the effect of non-starters on course completion rates of the B.Sc. programme: a preliminary study. Proceedings of the annual academic sessions of the Open University of Sri Lanka Colombo, Sri Lanka, 17–18 November 2016, p1.
5. Alwis, D. D. D. H. Bandarage, G., De Zoysa, M. N. K., (2016). Assessing the prior knowledge and thinking skills of students related to glassware in an undergraduate practical chemistry course; A preliminary study, ICCE2016-Abstracts, 24th IUPAC International Conference on Chemistry Education, 15 – 20 August 2016, Borneo Convention Centre Kuching , Sarawak, Malaysia, Malaysia, p 61
6. Bandarage, G. and M. N. K. De Zoysa, (2016). Gender dependence of guessing in multiple choice questions with negative marking in a physical chemistry course in a B.Sc. programme. ICCE2016-Abstracts, 24th IUPAC International Conference on Chemistry Education, 15 – 20 August 2016, Borneo Convention Centre Kuching , Sarawak, Malaysia, Malaysia, p 54 – 55.
7. Hettiarachchi, S.R., Wadige, C.P.M.M., (2016). Arsenic speciation studies in *Oriza sativa* L. grown in Wahalkada, Sri Lanka. Conference: European Chemistry Congress, June 16-18, Rome, Italy, At Rome, Italy, Volume 7,
8. Mohamed, N.S., Thayaparan, M., (2016). Investigation of the Effect of Ambient Conditions on Biosorption of Cd from Aqueous Solution by *Salvinia molesta*. 5th Young Scientist Forum Symposium (YSF), 5. National Science and Technology Commission, Government of Sri Lanka.
9. HMP Hewavitharane, MDJS Saparamadu, RG Premaratne, GR Ranawaka and HTR Jayasooriya (2016). Receptivity for malaria transmission in a highly vulnerable

- district: A potential challenge for prevention of reintroduction efforts in Sri Lanka. Proceedings of the Annual Sessions of the Sri Lanka Association for the Advancement of Science, Sri Lanka, 5–9 December 2016, p4
10. Asela S. Dikkumbura, Erica R. Webster, Rachel E. Dorris, Rebecca A. Peebles and Sean A. Peebles (2016). Structures and nuclear quadrupole coupling tensors of 1,2-dichloroethane, 1-chloro-2-fluoroethane and 2,3-dichloropropene studied using microwave spectroscopy and computational chemistry, 251st ACS National Meeting & Exposition, San Diego, California, USA, 13-17 March 2016;
  11. Asela S. Dikkumbura, Erica R Webster, Rachel E Dorris, Rebecca A Peebles, Sean A. Peebles (2016). Structures and nuclear quadrupole coupling tensors of a Series of Chlorine containing hydrocarbons, 71st International Symposium on Molecular Spectroscopy, Champaign-Urbana, Illinois, USA, 20-24 June 2016;
  12. Heesu Janf, Soohyun Ka, Asela S. Dikkumbura, Rebecca A. Peebles, Sean A Peebles (2016). Microwave Spectrum, Structure and Dipole Moment of 4-fluorophenylacetylene (4FPA), Journal of Molecular Structure, ELSEVIER, 28th September 2016

## DEPARTMENT OF MATHEMATICS

### Books/Book Chapters

None

### Publications with Impact Factor Citations

1. Martin, J.D., Senadheera, J., 2016. Differential operators for Hermitian Jacobi forms and Hermitian modular forms. The Ramanujan Journal doi:10.1007/s11139-015-9761-1(*Impact Factor 0.563*)

### Publications/ (no impact factor)

1. Navaratne, W.C.W., U. Angammana & K.A.S.N. Fernando (2016). Identification of High Risk Age Groups for Thyroid Cancer Using Break Point Regression Analysis, JNSF Manuscript 186-2016, National Science Foundation, Sri Lanka
2. Wasana C. Uduwela, Gamini Wijayarathna, An approach to Automate the Relational Database Design Process, IJDMS Journal
3. Herath, H.M.L.N.K. and J.V. Wijayakulasooriya, Auto Regressive Model Based Phoneme Transition Model for Natural Speech Synthesis, Ellxir Digital Processing 97 (2016) 42080-42084
4. Tharindu Wickramaarachchi, The nonlinear dynamics of the dengue mosquito reproduction with respect to climate in urban Colombo: A discret time density dependent fuzzy model, International Journal of Mathematical Modelling and Numerical Optimisation

5. Seneviratna, N.A.M.R. (2016). Forecasting Tae Auction prices in Sri Lanka: Box-Jenkins modeling approach, Indian Journal of Applied Research, Volume 6, Issue 11 [November 2016]

### **Conference proceedings/abstracts/extended abstracts**

1. Gnanapragasam, S. R. and T. M. J. A. Cooray (2016). Tourist arrivals after the internal conflict in Sri Lanka: A time series analysis using holt- winter's method. Proceed. Open University research Sessions P.123
2. Gnanapragasam, S.R. and T.M.J.A. Cooray, Prediction of dengue fever cases in Sri Lanka using time series model, Proceedings of 3rd Ruhuna International Science and Technology Conference, University of Ruhuna, Matara, Sri Lanka, January 28, 2016
3. Punchimudiyanse, M., J. P. P. Tharanga and E. M. S. S. Edirisinghe (2016). Software pabx pilot deployment in campus network of the open university of Sri Lanka, Proceed. Open University research Sessions P.96
4. Punchimudiyanse, M. (2016). Web based automated speech-to-text translator for the Sinhala Language, The Computer Society of Sri Lanka, Professional Centre, No. 275/75, Prof. Stanley Wijesundera Mawatha, Colombo 07.
5. Ariyasinghe, I.D.I.D. and T.G.I. Fernando (2016). A Modified Pareto Strength Ant Colony Optimizatin Algorithm for the Multi-objective Optimization Problems, Proceedings of Conference of IEEE CEC 2016 Technical Program Committee and Technical Chairs

## **DEPARTMENT OF PHYSICS**

### **Books/Book Chapters**

None

### **Publications with Impact Factor Citations**

1. Sirimanne, P.M., Perera, V.P.S., (2016). Multi-dye coated electrodes for solid state TiO<sub>2</sub> | dye | p-semiconductor solar cells, Optik-International Journal for Light and Electron Optics, 127, 6874-6883. (*Impact Factor 0.742*)
2. Dissanayake, A.K.L., Senadeera, G.K.R., Bandara, T.M.W.J. (2016). Mixed cation effect and iodide ion conductivity in electrolytes for dye sensitized solar cells. Ionics, 1-7. (*Impact Factor 2.119*)
3. Dissanayake, M.A.K.L., Divarathna, H.K.D.W.M.N., Dissanayake, C.B., Senadeera, G.K.R., Ekanayake, P.M.P.C., Thotawattage, C.A., (2016). An innovative TiO<sub>2</sub> nanoparticle/nanofibre/nanoparticle, three layer composite photoanode for efficiency enhancement in dye-sensitized solar cells. Journal of Photochemistry and Photobiology A: Chemistry. 322, 110-118. (*Impact Factor 2.447*)

4. Dissanayake, M. A. K. Kumari, L. M. K. W., Senadeera, G. K. R., Thotawatthage, C. A., (2016). Efficiency enhancement in plasmonic dye-sensitized solar cells with TiO<sub>2</sub> photoanodes incorporating gold and silver nanoparticles. *Journal of Applied Electrochemistry*, 46, 47–58 (*Impact Factor 2.223*)
5. Dissanayake, M. A. K. L. , Ekanayake, E. M. B. S., Bandara, L. R. A. K., Seneviratne, V. A. , Thotawatthage, C. A., Jayaratne, S. L., Senadeera, G. K. R., (2016). Efficiency enhancement by mixed cation effect in polyethylene oxide (PEO)-based dye-sensitized solar cells. *Journal of Solid State Electrochemistry*, 20, 193–201. (*Impact Factor 2.227*)
6. Sarangika, M., Diasanayake, M.A.K.L. Senadeera, G.K.R., R. R. D. V. Rathnayake, Pitawala, H.M.J.C. (2016) Polyethylene oxide and ionic liquid based solid polymer electrolyte for rechargeable magnesium batteries. *IONICS – International Journal of Ionics*, 2016. (*Impact Factor 2.119*)

### **Publications/ (no impact factor)**

1. Karunanayaka, S.P., Rajendra, J.C.N., Ratnayake, H.U.W., Naidu, S., 2016. (2016) "Peer-facilitated discussions to enhance OER-based e-learning", *Asian Association of Open Universities Journal*, Vol. 11, 90 – 104
2. Kumari, J.M.K.W., Sanjeevadarshini, N., Dissanayake, J.M.K.W., Senadeera, G.K.R., Thotawatthage, C.A., (2016). The effect of TiO<sub>2</sub> photo anode film thickness on photovoltaic properties of dye-sensitized solar cells. *Ceylon Journal of Science* 45, 33-41. DOI: <http://dx.doi.org/10.4038/cjs.v45i1.7362>
3. Bandara, K.N.D.; Jayathileka, K.M.D.C.; Dissanayake, D.P.; Jayanetti, J.K.D.S. (2016). Effects of Surface Modification of n-Cu<sub>2</sub>O/p-Cu<sub>x</sub>S Thin Film Heterostructures for Enhanced Liquefied Petroleum Gas Sensing Properties, *OUSL journal*, Vol 10, p.59-72
4. Karthikeyan, N., Narayanan, V., Stephen, A., (2016). Visible light degradation of textile effluent using nanostructured TiO<sub>2</sub>/Ag/CuO photocatalysts. *Nanosystems: Physics, Chemistry, Mathematics*, 7, 695–698.
5. Samarasekara, P., Yapa, N.U.S., (2016), Third order perturbed energy of fcc ferromagnetic thin films as described by Heisenberg Hamiltonian. *Ceylon Journal of Science*, 45, 71-77.
6. Samarasekara, P., Yapa, N.U.S., (2016). Magnetic energy of sc ferromagnetic films with three layers as described by third order perturbed Heisenberg Hamiltonian. UDC: 538.9 Condensed matter Physics, Solid state Physics, Theoretical Condensed matter Physics . arXiv preprint arXiv:1606.02439
7. Samarasekara, P., Yapa, N.U.S., (2016). Third Order Perturbed Heisenberg Hamiltonian of BCC Ferromagnetic Ultra-Thin Films. *Research & Reviews: Journal of Physics*. 5, 23–30.

## Conference proceedings/abstracts/extended abstracts

1. Karunanayaka, S.P., Naidu, S., Rajendra, J.C.N., Ratnayake, H.U.W., (2016). Designing Reflective Practice in the Context of OER-based e-Learning. Proceed. 8th Pan Commonwealth Forum on Open Learning (PCF8) 27-30 November 2016. 8th Pan Commonwealth Forum on Open Learning (PCF8).
2. Fernando, G. W. A. R., Bandara, S.P.S., Malalgoda, D., Igalavithana, A.D., (2016). Modelling of groundwater quality in the area around Rathupaswala in the Gampaha district of Sri Lanka. Conference: 5th Intern. Symp. Water Quality and Human Health, Challenges Ahead, 5<sup>th</sup> and 6<sup>th</sup> of August-2016. At Kandy, Sri Lanka, Volume: 5
3. Wijayathunga, L.K., Fernando, G.W.A.R., Weerakoon, D.K., Priyantha, A.A.C., (2016). Spatial variation of geochemical parameters due to recent excavations of lakes in Colombo suburbs with special reference to Thalawatugoda Area. Proceedings of the 32nd Technical Sessions of Geological Society of Sri Lanka, Published Online - 26th February 2016 (<http://www.gsslweb.org>)
4. Petschnig, P., Hauzenberger, C., Fernando, G.W.A.R., Fritz, H., (2016). Granulite facies vestiges in the Vijayan Complex, Sri Lanka: new petrological and geochemical evidences. Proceedings of the 32nd Technical Sessions of Geological Society of Sri Lanka Published Online - 26th February 2016 (<http://www.gsslweb.org>)
5. Sarathchandra, G.Y.A.N., Fernando, G.W.A.R. and Rajapakshe, A.U. (2016). Iodine and selenium levels in water sources and goiter distribution in the Nuwara-Eliya district. Proceed. PGIS Research Congress, 7<sup>th</sup> and 8<sup>th</sup> October 2016, p.15
6. G. C. Wickramasinghe, S. D. M. Rosa, G. M. L. P. Aponsu, V. P. S. Perera (2016). Exploration of natural dye extracted from annatto seeds to fabricate dye sensitized solar cell. G, Proceed. Open University Research Sessions, p.104
7. P.M. Sirimanne, V.P.S.Perera (2016), Multi-dye coated electrodes for solid-state dye sensitized solar cells, EMN Meeting on Photovoltaics 2016, Energy Materials and Nanotechnology, January 18-21, Hong Kong, China
8. Diasanayake, M.A.K.L. Senadeera, G.K.R., Sarangika, H.N.M., Ekanayake, P.M.P.C., Thotawattage, C.A., Divarathne, H.K.D.W.M.N.R., Kumari, J.M.K.W. (2016). TiO<sub>2</sub> as a Low Cost, Multi Functional Material. 5th International Conference on Functional Materials & Devices (ICFMD 2015). Materials Today: Proceedings, 3., 40-47.
9. Dissanayake, S.S., Dissanayake, M.A.K.L., Seneviratne, V.A., Senadeera, G.K.R., Thotawattage, C.A., (2016). Performance of Dye Sensitized Solar Cells Fabricated with Electrospun Polymer Nanofiber Based Electrolyte. 5th International Conference on Functional Materials & Devices (ICFMD 2015). Materials Today: Proceedings, 3., 104-111.
10. Jayawardena, H.K.W., Enger, L. (2016). Numerical simulation of air pollution dispersion in a lee side wake - A case study at South Western part of Sri Lanka, The 15th AeroCom/ 4th AERO-SAT workshops, Beijing, China, 19-27 September 2016
11. R.D. Hettiarachchi, W.L. Sumathipala, W.C.W. Navaratne, S. Somaratne and K.H.M.S. Premalal (2016). Spatial and Temporal variation of Rainfall during South-

West Monsoon period in Sri Lanka and its relationship with some of the Global Teleconnections, 16th Science Council of Asia Conference, SCA-16, Japan, held in May-June 2016 in Sri Lanka

12. T. Sivaranjani, K. dhanapal, N. Karthikeyan and A. Stephan (2016). Pulsed electrodeposition of CuIn and CuInSe, and their application, Publication in the proceedings of 19th National Convention of Electrochemists (NCE-19) held at National Institute of Technology, Tiruchirappalli, India, March 28 & 29, 2016, p46.
13. N. F. Ajward, N. R. A. M. Ruwangika, G. M. L. P Aponsu, D. L. N. Jayathilaka, J. C. N. Rajendra and V. P. S. Perera (2016). Analysis of Composite Films Made of Tin (IV) Oxide and Silica using Electrochemical Techniques Proceedings of the 32<sup>nd</sup> Technical Sessions, – Institute of Physics – Sri Lanka, p.9-15.
14. Sandaruwan, S., Illeperuma, G., Sonnadara, S., (2016). Collision Detection through Optical Flow. Proceedings of the Technical Sessions, 2016. Institute of Physics – Sri Lanka. 32, p.1-8.
15. Nilmini, K.A.C. and Illeperuma, G.D. (2016). Low Cost Electronic Stethoscope. Kelaniya International Conference on Advances in Computing and Technology (KICACT - 2016), Faculty of Computing and Technology, University of Kelaniya, Sri Lanka. p 40-41.

## DEPARTMENT OF ZOOLOGY

### Books/Book Chapters

None

### Publications with Impact Factor Citations

1. Fernando, Saminda P., Darren E. Irwin, and Sampath S. Seneviratne (2016). Phenotypic and genetic analysis support distinct species status of the Red-backed Woodpecker (Lesser Sri Lanka Flameback: *Dinopium psarodes*) of Sri Lanka, The Auk , Volume 133, 2016, pp. 497–511 (*Impact Factor 1.871*)
2. Jayawardena U. A., Ratnasooriya, W. D., Wickramasinghe, .D D., and Udagama, P. V. (2016). Heavy metal mediated innate immune responses of the Indian green frog, *Euphlyctis hexadactylus* (Anura: Ranidae): Cellular profiles and associated Th1 skewed cytokine response. *Science of The Total Environment*, 566-567:1194-204. doi: 10.1016/j.scitotenv.2016.05.171. Epub 2016 Jun 19. (Impact factor 4.014)
3. Udalamaththa V.L., Jayasinghe C. D., and Udagama, P.V. (2016). Potential role of herbal remedies in stem cell therapy: proliferation and differentiation of human mesenchymal stromal cells. *Stem Cell Research & Therapy*, 7:110-117. (DOI: 10.1186/s13287-016-0366-4; URL: <http://stemcellres.com/content/7/1/110>) (Impact factor 4.504)

4. Dahanayaka, D.D.G.L., B.D.C. Perera, M.J.S. Wijeyaratne and H. Tonooka (2016), Monitoring eutrophication trends in Bolgoda North Lake, Sri Lanka by Satellite Remote Sensing, *Turkish Journal of Fisheries and Aquatic Sciences*, vol. 16, pp. 563-570. DOI: 10.4194/1303-2712-v16\_3\_08. (impact factor: 0.711)

### **Publications/ (no impact factor)**

1. Gamage, S.N. C.J. Heettiarachchi, C.A. Mahanayakage, U.K.G.K. Padmalal and S.W. Kotagama (2016). The Red Slender Loris (*Loris tardigradus*), WILDLANKA Vol. 4, No. 1, pp 024-032, 2016, Copyright 2016, Department of Wildlife Conservation, Sri Lanka
2. Nisansala S Bopage, Kithsiri H. Jayawardena, S. Chandrani Wijeyaratne, Ajitha. M. Abeysekera, Seneviratne, G.M.K.B. Gunaherath (2016). Wound Healing Active Constituents from the Bark of *Ficus racemosa* L. using Scratch Wound Assay, Natural Product Communications, Vol. 11, No. 0, 1-2, 2016
3. W.A.Y. Chandrani, J. Wattewidanage (2016). Species composition and fatty acid profile in family Leiognathidae sampled from west coast of Sri Lanka, International Journal of Science Arts and Commerce (IJSAC)

### **Conference proceedings/abstracts/extended abstracts**

1. A.D. Premarathna, S.K. Wijesekera, R.N. Waduge, R.P.V.J. Rajapakse (2016). P2 - A preliminary study of the potential wound healing properties of aqueous extracts of *Sargassum crassifolium* and *Ulva lactuca*, Allergy and Immunology Society of Sri Lanka, Proceedings of the 8<sup>th</sup> Biennial Scientific Sessions, 14<sup>th</sup> & 15<sup>th</sup> July 2016.
2. N. S. Bopage, K. H. Jayawardena, S. C. Wijeyaratne, A. M. Abeysekera, G. M. K. B. Gunaherath (2016). Wound Healing Activity of some Lupeol derivatives using Scratch Wound Assay., Proceed Open University Research Sessions, p.116
3. Nijamdeen T.W.G.F.N., Weerakoon, K., Diyes, C.P., (2016). Evaluation of Soil Invertebrate Communities in Udawattakele and Forests near Gohagoda in Kandy, Sri Lanka. 21<sup>st</sup> International Forestry & Environment Symposium, USJ, 23<sup>rd</sup> and 24<sup>th</sup> Sept. 2016, p.28
4. Diyes, C.P., Weerakoon, K., (2016). A preliminary investigation of human-biting ticks in Uhumeeya Grama Niladari (GN) division in Kurunegala, Sri Lanka. Conference: Wayamba University International Conference, At Wayamba University of Sri Lanka. DOI: 10.13140/RG.2.2.24431.02721
5. Chanika D. Jayasinghe and Isao Suetake (2016). Length of Hinge Region and Chromoshadow Domain of Heterochromatin Protein 1 Gamma (HPl $\gamma$ ) Determine its Distinct Localization in Euchromatin Region, Proceedings of International Conference of Japanese Alumni Association of Sri Lanka pp149-152.
6. Saminda P. Fernando and Sampath S. Seneviratne (2016). Dynamics of a hybrid zone between an island endemic and its continental sister species of flameback woodpeckers in Sri Lanka, Proceed. North American Ornithological conference, p.140

7. Ellepola, G. and Ranawana, K.B. (2016). Habitat characteristics of butterfly fishes (Chataetodontidae) in two coral reefs in Sri Lanka, Proceed. PGIS Research Congress, 7<sup>th</sup> and 8<sup>th</sup> October 2016, p.20
8. G. Ellepola and K.B. Ranawana (2016). Survey on fishery in the Nayar Lagoon, Mullativu, Sri Lanka, Proceedings of the National Aquatic Resources and Development Agency (NARA), Scientific Sessions 2016
9. Punchihewa, N., Silva, N.P.C., (2016). Feeding habits and habitat relationship of fish species associated with seagrass and mangroves in Negombo Lagoon. Conference: Sri Lanka Association for Fisheries and Aquatic Resources, At NARA, Colombo 13, Volume: 22
10. H.B. Jayasiri, D.D.G.L. Dahanayaka and K. Arulanathan (2016), Diversity and abundance of marine plankton and benthos of Maruthankerny, off Jaffna, Sri Lanka, Proceedings of the International Forestry and Environment Symposium 2016, Department of Forestry and Environment Science, University of Sri Jayewardenepura, Sri Lanka, pp. 16.
11. H.D. Wimalasena, D.D.G.L. Dahanayaka, K.H.M.L. Amaralal (2016), ICT applications for strengthening of fisheries information system: A Sri Lankan experience, Proceedings of the International Symposium on ICT for Sustainable Development 2016 (ICTSD 2016), University of Kelaniya, Sri Lanka, pp. 11.



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ENGLISH**



## POSTGRADUATE INSTITUTE OF ENGLISH

	Books/ Book Chapters	No. of Publications With Impact Factor Citations	No. of Publications/ (no impact factor)	Conference proceedings /abstracts/ extended abstracts
Total	5	0	2	0

### Books/Book Chapters

1. Harshana Rambukwella 2016. (Editor) *Sahitya: special issue*. A collection of scholarly essays on Sri Lankan literature and the arts to mark the State Literary Festival 2016. Colombo: Department of Culture Sri Lanka.
2. Gagné, A. Herath, S., & Valencia, M. (2016). Collaboration as a tool to unpack privilege and marginalization in ELT: A trioethnography of three diverse educators. In Yazan, B. & Rudolph, N. (Eds.) *Teacher Identities, Privilege and Marginalization in English Language Teaching: Beyond Essentialization and Idealization*. Dordrecht: The Netherlands: Springer.
3. Herath, S. (2016). Reflection towards transformation. In M. Froggett & S. Herath (Eds.) *English language teacher research partnerships: A collection of papers from the Sri Lankan context* (pp. 9 - 16). Colombo: British Council Sri Lanka.
4. Froggett, M. & Herath, S. (Eds.) (2016). English language teacher research partnership awards: A collection of research papers from the Sri Lankan context. Colombo: British Council.
5. Davies, L., Herath, S. and Sethunga, P. (2016). The National Policy on Education for Social Cohesion and Peace: Strategies towards sustainable peace. Colombo: Ministry of Education, Sri Lanka.

### Publications with Impact Factor Citations

None

### Publications/ (no impact factor)

1. Harshana Rambukwella and Kanchana Ruwampura. (2016). "Paradox of Sri Lanka's Elite Political Women" *The Dangerous Women Blog*. Institute for Advanced Social Sciences and Humanities, University of Edinburgh.
2. Harshana Rambukwella. (2016). *Book review: Social Research Philosophical and Methodological Foundations by Jayadeva Uyangoda*" *Colombo Business Journal* 7(1): 52-27

### Conference proceedings/abstracts/extended abstracts

None



**CENTRE FOR  
EDUCATIONAL TECHNOLOGY &  
MEDIA  
(CET-me)**



**CENTRE FOR EDUCATIONAL TECHNOLOGY &  
MEDIA  
(CET-me)**

	<b>Books/ Book Chapters</b>	<b>No. of Publications With Impact Factor Citations</b>	<b>No. of Publications/ (no impact factor)</b>	<b>Conference proceedings /abstracts/ extended abstracts</b>
<b>Total</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>4</b>

**Books/Book Chapters**

None

**Publications with Impact Factor Citations**

None

**Publications/ (no impact factor)**

1. Jayatilleke, B G and Gunawardena, CN (2016). Cultural Perceptions of Online Learning: Transnational Faculty Perspectives, *AAOU Journal, Vol. 11, No. 1, 50-6*

**Conference proceedings/abstracts/extended abstracts**

1. Kumarasinha, M.C.B; Jayatilleke,B.G. Senadheera, P; Wattavidanage, J.; Perera, P.; Vaidyashekhara, M.B.; Mikunthan, G.; and Coomaraswamy, U. (2016). *M-Learning for empowering women farming community in Sri Lanka by facilitating lifelong learning*. In proceeding of the 30th Annual Conference of the Asian Association of Open Universities, 26-28 October 2016, Manila (Abstract)
2. Kurupparachchi, K. A. J. M.; Dias, P and Kannangara, N.C. (2016). Explorating the input of Open Distance Learning processing systems of the Open University of Sri Lanka: detecting possible influential factors for registering students for the B.Sc degree programme. Proceedings of the Open University Research Sessions. (p.3).
3. Kumarasinha, M.C.B; Jayatilleke,B.G.; Senadheera, P; Wattavidanage, J.; Perera, P.; Vaidyashekhara, M.B.; Mikunthan, G.; and Coomaraswamy, U. (2016). *M-Learning for empowering women farming community in Sri Lanka by facilitating lifelong learning*. In proceeding of the 30th Annual Conference of the Asian Association of Open Universities, 26-28 October 2016, Manila (Abstract)
4. Senadheera, P, Kumarasinha, M.C.B; Perera, P.; Wattavidanage, J. and Weerasinghe, T.K. (2016). *User-Friendly Bioinformatics Tools for Courses in Open*

*and Distance Learning*. In proceeding of the 30th Annual Conference of the Asian Association of Open Universities, 26-28 October 2016, Manila (Abstract)



# **REGIONAL EDUCATIONAL SERVICES**



## REGIONAL EDUCATIONAL SERVICES

Department	Books/ Book Chapters	No. of Publications With Impact Factor Citations	No. of Publications/ (no impact factor)	Conference proceedings /abstracts/ extended abstracts
Total	0	2	2	0

### Books/Book Chapters

None

### Publications with Impact Factor Citations

1. Wijayathilaka, N., Garg, S., Senevirathne, G., Karunarathna, N., Biju, S.D. and Meegaskumbura, M., (2016). A new species of *Microhyla* (Anura: Microhylidae) from Sri Lanka: an integrative taxonomic approach. *Zootaxa*, 4066(3), pp.331-342. (Impact factor 0.994)
2. Wijayathilaka, N. and Meegaskumbura, M., (2016). An acoustic analysis of the genus *Microhyla* (Anura: Microhylidae) of Sri Lanka. *PloS one*, 11(7), p.e0159003. (Impact factor 3.234)

### Publications/ (no impact factor)

1. A.M.P.B. Abeysinghe\*, B.G. Jayatilleke, Bandunee C L Athapattu, L.P.S. Gamini (2016). Historical perspectives on costing of ODL courses: re-evaluate the implement at the Open University of Sri Lanka, *Advances in Social Sciences Research Journal*, 3(13), p. 195-211.
2. Benny A. Priyabadi, D.G.S.K Doluweera, Yun Minsheng (2016). Analisis of Implimenting Instructional Design in Creating Effective Open and Distance Learning Materials *ASEAN Journal of Open Distance Learning*, Vol. 8, No. 1, June 2016

### Conference proceedings/abstracts/extended abstracts

None



## SUMMARY

### RESEARCH PUBLICATIONS OF OUSL ACADEMIC STAFF IN 2016

Faculty/Institute/ Division	Books/ Book Chapters	No. of Publications With Impact Factor Citations	No. of Publications/ (no impact factor)	Conference proceedings /abstracts/ extended abstracts
Education	01	01	05	26
Engineering Technology	01	04	42	51
Health Sciences	00	07	04	10
Humanities and Social Sciences	02	05	28	39
Natural Sciences	03	17	41	66
Postgraduate Institute of English	05	00	02	00
Centre for Educational Technology and Media (CET-me)	00	00	01	04
Regional Educational Services (RES)	00	02	02	00
<b>Total</b>	<b>12</b>	<b>36</b>	<b>125</b>	<b>196</b>