



**Technical Session AI – Biological Sciences**

**Venue:** Department of Crop Science

**Chairperson:** Prof. Susirith Mendis

**Panel of Evaluators:** Prof. N.J. De Amarasinghe, Prof. K. L. Wasantha  
Kumara and Dr. L. Nugaliyadde

- AI – 01  
11.45 – 12.00 pm Screening of *Terminalia arjuna* for *in vitro* antioxidant potential: A comparative study of three test methods  
*A. P. Attanayake and K. A. P. W. Jayatilake*
- AI – 02  
12.00 – 12.15 pm Iodine content of commercially available salt products in Bope-Poddala health division in Galle; Need of urgent intervention for a proper programme monitoring  
*G. E. D. De Zoysa, M. Hettiarachchi, K. A. P. W. Jayatilake and C. Liyanage*
- AI – 03  
12.15 – 12.30 pm Morphological approaches to determine the niche overlap between two freshwater prawn species in Nilwala River estuary in Matara: A preliminary investigation  
*D. H. N. Munasinghe and J. D. M. Senevirathna*
- AI – 04  
12.30 – 12.45 pm Identifying risk factors of childhood asthma among 5-12 years old children in the Colombo Municipal Council area  
*I. T. S. Piyatilake, A. I. P. Samarasinghe, L. A. L. W. Jayasekara and P. H. Fonseka.*

**1.45 – 2.30 pm Poster Session PA - Biological Sciences**

**Venue:** Department of Crop Science

**Panel of Evaluators:** Prof. Ranjith Pathirana, Dr. Sampath Gunawardena and  
Prof. Lakmini Mudduwa

- PA – 01 Perception of educational environment of undergraduate nursing students in Sri Lanka: Effect of Gender  
*N. G. A. S. S. Chandana and M. Hettiarachchi*
- PA - 02 Clinical events during follow up and use of risk assessment tools in patients with myocardial infarction  
*C. M. Wickramatilake, M. R. Mohideen and C. Pathirana*
- PA - 03 A comparative study on the leaf feeding activities of *Raphidopalpa femoralis* (Coleoptera; Chrysomelidae) on two cucurbits and their wild relatives  
*D. M. D. S. Dissanayake, H. C. E. Wegiriya and C. N. L. Bogahawatte*
- PA - 04 Analysis of selected rice varieties in Sri Lanka by randomly amplified polymorphic DNA (RAPD)  
*K. K. G. U. Hemamali, A. M. R. M. Abeykoon, U. G. L. Ruwanthika and M. M. S. K. Kumari*



- PA - 05 An assessment of water quality and pollution in Puranawella Fishery Harbour in Dondra, Sri Lanka  
*K. H. H. Niroshana, H. B. Asanthi and P. B. T. P. Kumara*
- PA - 07 Evaluation of the changes in zooplankton community and water quality parameters of the Polhena Reef ecosystem (southern Sri Lanka) during inter monsoon to dry season  
*I. U. Manikarachchi, P.B. T. P. Kumara, R.G.A. Iroshanie*
- PA -08 Screening of potential bacterial antagonism in aqueous extracts of spent oyster mushroom substrate against *Colletotrichum gloeosporioides* causing anthracnose disease in papaya  
*N. P. Ranathunge, S. Gunathilaka, J. C. Rajapaksha, R.J.K Rajapaksha*
- PA - 09 Morphological differences of haploid, diploid and tetraploid Purple cornflower (*Echinacea purpurea* L.) produced by *in vitro* conditions  
*N. Dahanayake and Yue-Sheng Yang*
- PA - 10 Potential of a sea grass *Thalassia hemperichii* as a biofilter for selected heavy metals (Cu, Pb) in coastal environment  
*T. G. I. P Amaranayaka, H. B. Asanthi and R. G. A. Iroshini*

### **Technical Session AII – Biological Sciences**

**Venue:** Department of Crop Science

**Chair person:** Prof. L. P. Jayatissa

**Panel of Evaluators:** Prof. N. J. De S. Amarasinghe, Prof. K. L. Wasantha Kumara and Dr. L. Nugaliyadde

- AII – 01  
2.30 – 2.45 pm Molecular evidence for the occurrence of *Tomato spotted wilt virus* infecting tomato and groundnut in Sri Lanka  
*W. G. S.M. Kumari, Afshin Hassani-Mehraban & Dick Peters*
- AII – 02  
2.45 – 3.00 pm Color enhancement and the growth performance of Buenos Aires (B A) tetra (*Hemimigrammus caudovittatus*) fed with marigold petal meal (*Tagetes erecta*) and a commercial color feed  
*J. M. S. N. Rathnapala, K. Radampola and A. Dissanyake*
- AII – 03  
3.00 – 3.15 pm Development of an extraction method for analysis of trace elements in human blood and urine using home-made Cation Exchange Resin (Chelex-100) columns for ICP-MS analysis  
*R. A. Maithreepala and Ruey-an Doong*



**09<sup>th</sup> Academic Sessions**  
**University of Ruhuna, Matara, Sri Lanka**

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- AII – 04  
3.15 – 3.30 pm Impact of training for fish yield enhancement, with reference to culture- based capture fisheries in Anuradhapura district  
*R. D. N. Wijesinghe, E. Weerakoon, P. R. T. Cumarathunge and A. L. Sandika*
- AII – 05  
3.30 – 3.45 pm Comparison of sea grass distribution pattern in three coastal sites: Dondra, Polhena and Weligama of Southern Sri Lanka  
*K. A. D. A. T. Harishchandra, P. B. T. P. Kumara and H. B. Asanthi*
- AII – 06  
3.45 – 4.00 pm *In vitro* induction of diploids and tetraploids from haploid purple cornflower (*Echinacea purpurea* L.) by colchicine treatment  
*N. Dahanayake and Yue-Sheng Yang*

**Technical Session BI – Agriculture**

**Venue:** Department of Agricultural Economics

**Chairperson:** Prof. Athula Perera

**Panel of Evaluators:** Prof. Saman Abeysinghe, Prof. S. D. Wanniarachchi  
and Dr. Vineetha Wickramasinghe

- BI – 01  
11.45 – 12.00 pm Morphological screening of *Oryza eichingeri* derived rice lines against brown planthopper *Nilaparvata lugens* (Stal) resistance  
*A. T. U. P. Wijewickrama, D. Ratnasekera, S. G. J. N. Senanayake, G. Samarasinghe and S. A. P. Madurangi*
- BI – 02  
12.00 – 12.15 pm Evaluation of grain density, yield and agronomic characters in Selected rice (*Oryza sativa* L.) genotypes  
*D. G. T. U. Karunathilake, N. Dahanayake, A. P. Bentota, S. G. N. Senanayake, G. D. A. Priyantha and G. Nelumsheeli*
- BI – 03  
12.15 – 12.30 pm Study on seed germination potential of cardamom (*Elettaria cardamomum*), Nutmeg (*Myristica fragrans*) and Kithul (*Caryota urens*) under *in vivo* conditions  
*W. D. R. J. Rodrigo, N. Dahanayake, and S. G. N. Senanayake*
- BI – 04  
12.30 – 12.45 pm Evaluation of a morphological marker in determination of out crossing in rice variety Bw 364  
*K. D. K. Karuanarathna, A. P. Bentota, G. D. A. Priyantha, S. Geekiyanage and S. G. J. N. Senanayake*



1.45 – 2.30 pm Poster Session PB - Agriculture

*Venue: Department of Agricultural Economics*

*Panel of Evaluators: Prof. P. Hewage, Dr. Tilak P. T. Gamage and  
Dr. Yashoda Hirimuthugoda*

- PB – 01 Behavioural changes of goats as affected by different rearing systems with special emphasis on eating behaviour  
*D. Senaratna, A. A. P. Madusanka, P. I. Peiris, H. M .S. S. K.Herath, A. D. C. Priyadarshana, R. T. Kodithuwakkuarachchi and N. S. B. M. Atapattu*
- PB - 02 Water repellency and wet aggregate stability of soils under selected land uses  
*D. A. L. Leelamanie and I. Y. Gurusinghe*
- PB - 03 Potential and prospects of paddy husk utilization: A case study in Hambantota district  
*K. M. W. K Senadheera and M. A. P. D. P Wickramaratne*
- PB - 04 Development of herbal ice cream using ginger and black tea flavor and determination of its quality parameters  
*K. M. G. Kariyawasam, D. A. M. Arsecularatne and V. S. Jayamanne,*
- PB - 05 Evaluation of different varieties of sprouted rice to daily rice dish and assessing of their sensory qualities  
*M. H. N. Ireshani, P. L. N. Lakshman and R. F. Hafeel*
- PB - 06 Effects of two types of litter material on the behaviour of broiler chicken  
*U. D Belpagodagamage, and N. S. B. M. Atapattu*
- PB - 07 Effects of different strength of MS and N6 media on rooting, growth and development of *in vitro* propagated *Echinacea purpurea*  
*N. Dahanayake, Yue-Sheng Yang*
- PB -08 Agronomic characters of some traditional rice cultivars in Sri Lanka  
*U. G. S. Amarasigha, A. L. Ranawake, N. Dahanayake and U. Wanitunga*
- PB - 09 Understanding abiotic stress tolerant levels and mechanisms in some traditional rice cultivars in Sri Lanka  
*A.L. Ranawake and N. Dahanayake*
- PB – 10 Development of cost effective propagation techniques for *Nyctanthes arbor-tristis* L. for sustainable flower harvesting  
*R. M. S. M. B Rathnayaka, S. Subasinghe and H. K. M. S Kumarasinghe*
- PB - 11 Impact of wheat flour price increment on rice consumption  
*D. C. A. M. P. Jayarathne, W. N. De Silva and L. P. Rupasena*
- PB - 12 Use of ARIMA models to forecast potato retail and wholesale prices in Sri Lanka  
*D. K. C. Dileepeni and D. A. B. N. Amarasekara*



**Technical Session BII – Agriculture**

**Venue:** Department of Agricultural Economics

**Chairperson:** Prof. P. R. T. Cumararatunge

**Panel of Evaluators:** Prof. Saman Abeysinghe, Prof. S. D. Wanniarachchi  
and Dr. Vineetha Wickramasinghe

- BII – 01  
2.30 – 2.45 pm      Development of value-added curry paste using coconut (*Cocos nucifera* L.) and determination of its quality parameters  
*M. D. A. P. Thilakarathne, L. L. W. C. Yalgama, and V. S. Jayamanne*
- BII – 02  
2.45 – 3.00 pm      Effect of selected agrochemicals on salinity and drought stress tolerance in rice (*Oryza sativa* L.) at seedling stage  
*U. T. D. Rodrigo, A. L. Ranawake and S. G. J. N. Senanayake*
- BII – 03  
3.00 – 3.15 pm      Estimation and comparison of carbon sequestration by cinnamon grown in WL2a agro ecological zone  
*H. G. R. K. Lakprasadi and C.M. Navaratne*
- BII – 04  
3.15 – 3.30 pm      Inheritance of stem colour and photoperiod sensitivity in winged bean  
*K.M.A.S.K Rupasingha, D. Ratnasekera, S. Abeysiriwardana and S. G. J. N. Senanayake*
- BII – 05  
3.30 – 3.45 pm      Drought tolerant QTL analysis of rice (*Oryza sativa* L.) at seedling stage  
*A. L. Ranawake and C. Nakamura*
- BII – 06  
3.45 – 4.00 pm      Price increase of rice in Sri Lanka: Recent trends and implications  
*M. P. S. Mirando, T. Abevsekara and M. Wiieratne*

**Technical Session CI – Engineering/IT**

**Venue:** Department of Agricultural Engineering

**Chairperson:** Prof. W. G. D. Dharmaratna

**Panel of Evaluators:** Prof. Champa Navaratne, Dr. Chandana Perera  
and Dr. Amila Silva

- CI – 01  
11.45 – 12.00 pm      Investigation of suitability of expansive soil to use as clay liners  
*W. K. A. P. Abeyrathne, K. M. T. Pushpakumara, R. K. S. P. Ranaweera, N. H. Priyankara and A. M. N. Alagiyawanna*
- CI – 02  
12.00 – 12.15 pm      Evaluation of the performance of storm water drainage system at Engineering Faculty, University of Ruhuna  
*M. G. R. K Gnanasiri, W. M. T. Weerakoon, W. A. N. I. Wickramaarachchi and C. Kariyawasam*



- CI – 03  
12.15 – 12.30 pm Utilization of vacuum preloading method for soft soil improvement  
*L. A. T. U. Liyanaarachchi, G. H. H. Sanjeewa, R. M. D. N. Rathnayake and N. H. Priyankara*
- CI – 04  
12.30 – 12.45 pm Investigation of performance of coir fiber mats as insulation for air-conditioning systems  
*S. M. J. J. Ahamed, A. A Amalraj, K. H. A Kalyani, M. M. M. Dassanayaka and B. Sumith*

**1.45 – 2.30 pm Poster Session PC – Engineering & IT**

*Venue: Department of Agricultural Engineering*

*Panel of Evaluators: Prof. Asoka Gunawardane, Prof. P. L. A. G. Alwis, and Dr. S. H. K. K. Gunawickrama*

- PC – 01 Variation of water quality along Moragoda Ela  
*K. H. V. V Madushanka, R. A. S. S. Rajapksha, K. G. Rasanjana and W. K. C. N. Dayanthi*
- PC - 02 Solid waste management system in Hambantota district  
*D.D. Edirisinghe, N.H. Priyankara, A.M.N. Alagiyawanna, W.K.C.N. Dayanthi, Ken Kawamoto, Ijima Satoshi and L.Mangalika*
- PC - 03 Development of a MATLAB toolbox for mobile radio channel Simulators  
*D. S. De Silva*
- PC - 04 Development of model to improve the performance of horizontal axis wind turbine  
*A. Athukorala, K. A. D. Dharshana., D. N. Hopitigala and R. Gopalakrishnan*
- PC - 05 Development of a complementary data base and an interactive map for pedestrian related road accidents  
*G. N. Samarasekara, D. B. S. De Silva , G. M. C. Srimal, A. A. Gunwardhane, and C. Kariyawasam*
- PC - 06 Experimental study on a pendulor type device supported by a float to extract sea wave energy  
*P. Sahitharan, W. A. K. Rasanga., J. M. C. D Ratnayake, A. M. S Bandara and N. K. Hettiarachchi*
- PC - 07 Manual power generation for mechanical applications  
*K. A. D. Dharshana, N. K. Hettiarachchi, A. De Silva and M. Gayashan*



- PC -08    Learning tool for reinforced concrete design – element design  
*N. P. K. V. Karunaratne, N. C. Liyanage, R. A. S. Prabath and H. P. Sooriyaarachchi*
- PC - 09    Investigation of wall surface material to reduce industrial noise  
*G. H. M. J. Subashi De Silva, G. S. Y.De Silva and O. S. Chathurangani*
- PC – 10    An assessment of e-learning readiness of undergraduates at University of Ruhuna  
*D. N. T. Gunawardhana*

***Technical Session CII – Engineering & IT***

***Venue:*** Department of Agricultural Engineering

***Chair person:*** Prof. Mahinda Wijeratne

***Panel of Evaluators:*** Prof. Champa Navaratne, Dr. Chandana Perera  
and Dr. Amila Silva

- CII – 01  
2.30 – 2.45 pm    Design and fabrication of an autonomous mobile robot for industrial mapping purposes  
*K. A. D. Dharshana, R. M. A. Pushpakumara, K. H. M. A. Eranda and W. S. Abayarathna*
- CII – 02  
2.45 – 3.00 pm    Sustainable use of rice husk ash (RHA) as block manufacturing material  
*G. H. M. J. Subashi De Silva, I. Jiffry. and B. H. J. Pushpakumara*
- CII – 03  
3.00 – 3.15 pm    Design of a micro-scale RF energy harvesting circuit  
*W. L. A. De A. Gunathillake, G. I. Lokunarangoda, M. V. N. Nissansani, H. C. Palihena and K. Pirapaharan*
- CII – 04  
3.15 – 3.30 pm    Real-time brainwave analyzing system  
*D. N. Kumanayake, H. M. Kumanayake, D. L. D. A. Lakshitha S. S. H. M. U. L. Senanayake. and K. Pirapaharan*
- CII – 05  
3.30 – 3.45 pm    Design and fabrication of an automated coil winding machine for AC/DC motor and transformer windings  
*K. A. D. Dharshana, D. Marabedda and W. P. S. Shirantha*
- CII – 06  
3.45 – 4.00 pm    Digital file management system for Distance & Continuing Education Unit (DCEU) in University of Ruhuna  
*N. Hettiarachchi, K. H. Ramanayaka and I. D. K. L. Fernando*



**Technical Session DI – Social Sciences & Management**

**Venue:** Department of Animal Science

**Chairperson:** Prof. Gamini Senanayake

**Panel of Evaluators:** Prof. Sarath Amarasinghe, Mr. R. M. Rathnayake  
 and Mr. H. V. D. I. Abeywickrama

DI – 01

11.45 – 12.00 pm ග්‍රාමීය ප්‍රදේශ වල කාන්තා ව්‍යවසායකයින් මුහුණ දෙන ගැටළු හඳුනා ගැනීම  
 ඩී. එන්. ඩී. ගුණවර්ධන

DI – 02

12.00 – 12.15 pm Long-term impact of microfinance on poverty alleviation: A case study of southern province in Sri Lanka  
 A. J. M. Chandradasa

DI – 03

12.15 – 12.30 pm A Study on the factors responsible for high life expectancy of elderly persons in the peripheral area of northwestern Sinharaja forest  
 S. K. Mohamed Ali and R. K. C. Kumara

DI – 04

12.30 – 12.45 pm Impact of human activities on degradation of flora diversity in tropical rain forests: A case study of Kanneliya rain forest in Sri Lanka  
 D. W. Lokuge, and H. I. G. C. Kumara

**1.45 – 2.30 pm Poster Session PD - Social Sciences & Management**

**Venue:** Department of Animal Science

**Panel of Evaluators:** Prof. Vineetha Wijeratne, Dr. P. A. P. S. Kumara and  
 Ms. G. T. W. Sriyani

PD – 01 Technical efficiency of international tourism industry in Sri Lanka: Empirical evidence using data envelopment analysis  
 K. A. Nisantha and E. I. Lelwala

PD - 02 ව්‍යාපාරික පර්යන්ත ප්‍රදේශයන්හි කිතුල් කර්මාන්තය සඳහා සාම්ප්‍රදායික දැනුමෙහි ඇති විභවතාව  
 ධම්මික හේවගේ, මංජුල කරුණාරත්න, ආර්. කේ. වමින්දි කුමාර සහ ආර්. කේ. සිරිසේන

PD - 03 Participatory development and government: A study of implementer-beneficiary syndromes  
 U. Abeyrathne

PD - 04 Transformation of traditional agricultural practices in paddy cultivation in the face of green revolution: A sociological study in Hambantota district  
 T. Wijesundara and U. S. Wijepala





**09<sup>th</sup> Academic Sessions**  
**University of Ruhuna, Matara, Sri Lanka**

- PD - 05 විලාසිතා කෙරෙහි සමාජීය පෙළඹවීම පිළිබඳ අධ්‍යයනයක්  
*එස්. එන්. උයන්ගොඩ*
- PD - 06 Exploring structural challenges for coordinating education policy in Sri Lanka  
*I. R. Priyantha*
- PD - 07 ශ්‍රී ලංකාවේ නිවර්තන වැසි වනාන්තර කළමනාකරණය සඳහා ප්‍රජා සහභාගිත්වය  
 අධ්‍යයනය කිරීම (කන්තෙලිය ඇසුරිනි)  
*කේ. පී. ඩී. භාග්‍යා, ඩී. පී. ටී. අනුෂ්ක, පී. ජී. එන්. ප්‍රසන්න, එම්. ඩී. එන්. දිල්හානි, ආර්. එම්. එන්. ඩී. රණසිංහ, කේ. එම්. එන්. කුමාර සහ පී. එල්. එස්. සඳමාලි*
- PD -08 Beauty of women and women’s rights  
*K. D. D. Silva*
- PD - 09 Incentives for health worker retention in private hospitals  
*I. L. L Sagali and B.L.Galhena*
- PD – 10 Young consumers and their attitudes towards counterfeits; Evidence from a  
 developing country Ruhuna  
*S. A. Buddhika*
- PD - 11 Impact of relations with shareholders to the corporate financial performance in Sri  
 Lanka  
*A.G. Deepal*
- PD - 12 Critical factors influence to the success of small scale manufacturing enterprises  
 in Matara district  
*M. G. M. Dilrukshi and G. K. C. Jeewantha*
- PD – 13 Effect of brand experience on customer loyalty of public and private banking  
 sector in Matara  
*G. U. Harshani and P. K. C. Dinesha*
- PD - 14 Entry barriers of information and communication technology on small and  
 medium scale enterprises  
*E. K. Jayampathi and L. R. Lakmali*
- PD – 15 A Study on disaster preparedness on in university libraries in Sri Lanka  
*K.T. S. Pushpakumara and U. A. Lal*

**Technical Session DII – Social Sciences & Management**

**Venue:** Department of Animal Science

**Chair person:** Prof. Sarath Amarasinghe

**Panel of Evaluators:** Dr. Hemantha Wegiriya, Mr. R. M. Rathnayake  
 and Mr. H. V. D. I. Abeywickrama

DII – 01

2.30 – 2.45 pm

නිවර්තන වැසිවනාන්තර ආශ්‍රිත පර්යන්ත කළාපීය ප්‍රදේශ වල ජෛව විවිධත්ව  
 හායනය කෙරෙහි පයිනස් වගාවේ බලපෑම අධ්‍යයනය කිරීම  
*ආර්.කේ. එම්.එන්. කුමාර, එම්. අයි. පී. සී. කුමාර සහ ආර්. එම්. අනුරාධා සඳමාලි*



**09<sup>th</sup> Academic Sessions**  
**University of Ruhuna, Matara, Sri Lanka**

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- DII – 02  
2.45 – 3.00 pm      ධීවර කර්මාන්තය ආශ්‍රිත ළමා ශ්‍රමිකයින් පිළිබඳ සමාජවිද්‍යාත්මක අධ්‍යයනයක්  
දෙවිනුවර ප්‍රාදේශීය ලේකම් කොට්ඨාශ ඇසුරෙන්  
කේ. ජයවර්ධන
- DII – 03  
3.00 – 3.15 pm      Marketing Sri Lanka: Altering a negative tourist image  
*W. M. R. Laksiri*
- DII – 04  
3.15 – 3.30 pm      An assessment of students' attitudes of University of Ruhuna on opening  
of private universities in Sri Lanka  
*P. E. D. D. Silva*
- DII – 05  
3.30 – 3.45 pm      Compliance of the board structure with best practices of corporate  
governance and its impact to the financial performance of listed  
companies in Sri Lanka  
*A. G. Deepal*
- DII – 06  
3.45 – 4.00 pm      Financial impact of microfinance on micro entrepreneurs (with special  
reference of Sanasa Development Bank Limited in Matara)  
*M. G. M. Dilrukshi,*