

FOSnews

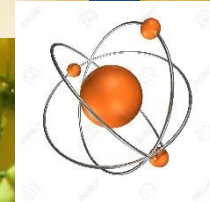
Faculty of Science, Eastern University, Sri Lanka

Newsletter
Volume 2/ Issue 2, December 2017



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Faculty of Science is one of the pioneer faculties established in 1981, under the Batticaloa University College.

Vision

To be a National Centre of excellent for higher learning and research with the competitive advantage, responsive to the dynamics of the regional, national and global conditions.

Mission

To be a National Centre for Excellent in teaching and research. Our teaching and research are geared to regional and national needs.

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Faculty of Science at Glance ...

Student number (studying in 2017)

Intake Year	Bio Science			Physical Science			Total
	Male	Female	Total	Male	Female	Total	
Year 1 (2015/2016)	4	32	36	36	30	66	102
Year 2 (2014/2015)	13	37	50	48	28	76	126
Year 2 (2013/2014)	09	38	47	38	28	66	113
Year 3 (2012/2013)	14	44	58	23	29	52	110
Special	6	18	24	7	15	22	46
Total	46	169	215	152	130	282	497

Academic strength – Highest Qualification (2017)

Status	Departments					Total
	Botany	Chemistry	Maths	Physics	Zoology	
Qualification						
PhD	4	3	3	4	2	16
MPhil	1	1	5		1	08
MSc	1			1		02
BSc		1	3		1	05
Grade						
Professor	1		2	1	1	05
Senior Gr (I)	4	3	2	2	2	13
Senior Gr (II)		1	4	1		06
Lecturer				1		01
Probationary	1	1	3		1	06

Degree programmes offered ...

BSc (General)

BSc (Special) – Botany, Chemistry, Computer Science, Mathematics, Physics and Zoology

Master of Science – Science Education, Environmental Sciences

Master of Philosophy (MPhil)

Doctor of Philosophy (PhD)

Diploma: Laboratory Technology

External Degree programme

BSc – Functioning under the Centre for External Degree and Extension Courses (CEDEC)

Publications

- **Journal of Science (JSc)** – Double blind, refereed journal, Print ISSN: 1391-586x, E-ISSN: 2602-9030. The Journal will be published biannually (March and September), and Open access.
<http://www.fsc.esn.ac.lk/JSC/index.html>
- **Blossom** – An annual publication by the Faculty Students Union.
- **FOSnews Newsletter** – A biannual publication by the Faculty.

Presidential Awards 2017....

Four academics from Faculty of Science received **President's Awards for Scientific Publication** at a ceremony held on 6th November 2017 at Taj Samudra, Colombo. The awarding scheme was started in 2001 to recognize Sri Lankan scientists whose research reached international standards, and to provide an incentive to increase national scientific productivity. This year, 294 Sri Lankan scientists with a Sri Lankan Institutional affiliation received awards for their research papers published in 2015 in journals listed in the Science Citation Index (SCI). The award winners from Eastern University: **Prof S Thirukkanesh** and **Prof A G Johnpillai** (Mathematics), **Dr P Peratheepan** (Physics) and **Dr M Koneswaran** (Chemistry).



Faculty Contributions, Events...

Eastern University organized an International Symposium on Gender Equity and Equality (ISGEE) 2017 with the support of UNESCO under the UNESCO Participation Programme. Dr T Mathiventhan, from Faculty of Science, was the Coordinator for the symposium and Editor-in-Chief of the Proceedings.



Promotions of Staff...



Mrs U Mathiventhan, Department of Botany, has been promoted to Senior Lecturer (Gr.I) with effect from 01-02-2017 (A).

Dr T Mathiventhan, Department of Botany, has been promoted to Senior Lecturer (Gr.I) with effect from 01-02-2017 (B).

Mr P Paramadevan, Department of Mathematics, has been Promoted to Senior Lecturer (Gr.I) with effect from 01-02-2017 (C).



Mr. S. Sotheeswaran, Department of Mathematics, has been promoted to Senior Lecturer (Gr II) in Computer Science with effect from 18.01.2016 (D).

Dr P Peratheepan, Department of Physics, has been promoted to Senior Lecturer (Gr.I) With effect from March 2017 (E).



Completion of Postgraduate studies...



Mr S Sotheeswaran has been successfully completed his MPhil in *Computer Science studies* at the Faculty of Graduate Studies, University of Jaffna, Sri Lanka with effect from January 18, 2016.

He did the research on "A Coarse-To-Fine Strategy for Vehicle Logo Recognition"

Appointments...

Mr P Kannathasan and Ms K Yogarani have been appointed as Laboratory Attendant at the Department of Botany from May 2, 2017.



Research Publication (Refereed journal, Conference proceedings) ...

Biology / Botany / Zoology

1. **Jayasingam, T.** (2017). Alteration of Landscape-Disaster Unnoticed. *International Conference: Global Challenges and Data-Driven Science*, 8-13 October 2017, St. Petersburg, Russia.
2. **Jayasingam, T.** and **Mathiventhan, T.** (2017). Mangroves of Batticaloa, Sri Lanka: Climate change and Sea-level rise scenarios (2017). *IUCN Mangrove Symposium 2017*, 11-17 September 2017, Germany.
3. **Jayasingam, T.** (2017). Sustainable management of coast would only be a miracle without rational baseline and indicators: Sri Lankan perspectives. *The 2nd International conference of Digital Belt and Road (DBAR 2017)*, *The 3rd International conference on remote sensing applications in tropical and subtropical areas (RSATSA 2017)*. 6-8 December 2017, Hong Kong.
4. **Mahendranathan, C.** (2017) Controlling plant diseases using induced resistance. *Proceeding of the 6th International conference on. Recent trends in life Sciences (ICRTLS2017)*; 29-30 December 2017, India.

Mathematics/Physics

1. **Karunarathna, K. A. N. K.** (2017). Modeling Counts in Dependent Clusters with Dependence of Model Errors, IASSL (Institute of Applied Statistics, Sri Lanka) International Conference, Hotel Taj Samudra, Colombo, 28-29 December 2017.
2. Karunarathna B., **Karunarathna, K. A. N. K.** (2017). Forecasting Fish Production in Sri Lanka by Using ARIMA Model, *Journal of Agriculture and Veterinary Sciences* 4 (9), 344-349.
3. **Fernando, P.R.** (2017). Sheppard, C.J. and Prinsloo, A.R.E. (2017). Superconductivity and Quantum criticality in Cr100-zosz. *Acta Physica Polonica A, Poland*. DOI: 10.12693/APhysPolA.131.1132.
4. **Fernando, P. R.** (2017). Mechanical and Physical Properties of Fired Clay Brick Partial Doped with Coconut Shell Ash. *American Journal of Energy and Natural Resources*. DOI: 10.11648/j.jenr.20170605.11

Collaborative Researches/works...

Faculty involves research collaboration Internationally and Nationally

- **Prof. A. G. Johnpillai** was offered a Visiting Researcher position to visit, Professor F. M. Mahomed at the DST-NRF Centre of Excellence in Mathematical and Statistical Sciences (CoE-MaSS), University of the Witwatersrand, Johannesburg, South Africa, for Research Collaboration from 24th September 2017 to 6th October, 2017.
- **Forest Department, Institute of Fundamental Studies (IFS), Coast Conservation Department (CCD), Department of Wildlife and Conservation (DWLC):** Prof T Jayasingam and Dr T Mathiventhan (Dept. of Botany), Prof SriL Wijesundara (IFS) and the other relevant departments are jointly involving in a thematic survey, titled "Vegetation survey of Eastern and Northern Provinces". It runs for a period of TWO years. Eastern University, Sri Lanka (EUSL) is financially supporting this project (2016-2018).
- **Bharathidasan University, Tiruchirappalli, Tamil Nadu, India:** Dr A G Johnpillai, Dept. of Mathematics had collaborative work with Prof. M. Lakshmanan, Centre for Non-linear dynamics (July 2016).
- **Other collaboration established/Planned to establish:** University of Johannesburg, South Africa; University of Manchester, UK; University of Bristol, UK; Institute of Aquaculture, University of Stirling, Scotland, UK; Center for Aquaculture, Parangipettai, Insect laboratory, Bangalore, India; Annamali University, India; French Institute, Pondichcheri.

Academics explore their findings at the International & National forums...



(a) Prof T Jayasingam, Dept. of Botany, attended an International Symposium on *IUCN Mangrove Symposium 2017* held at Bremen, Germany, 11-17 September 2017. He presented a paper titled **"Mangroves of Batticaloa, Sri Lanka: Climate change and Sea-level rise scenarios"**

(b) Prof T Jayasingam, Dept. of Botany, attended an International Conference on *The 2nd International conference of Digital Belt and Road (DBAR 2017); The 3rd International conference on remote sensing applications in tropical and subtropical areas (RSATSA 2017)* held at The Chinese University of Hong Kong, 6-8 December 2017.

He presented a paper titled **"Sustainable management of coast would only be a miracle without rational baseline and indicators: Sri Lankan perspectives"**.

He presented another paper in a Special session titled **"Priorities in Sri Lanka. DBAR Capacity building"**

He was a Co-Chair for a session: Environmental monitoring and analysis for sustainable development and management of coast and sea.

(c) Prof T Jayasingam, Dept. of Botany, attended an International Conference on *Global Challenges and Data-Driven Science* held at St. Petersburg, Russia, 8-13 October 2017.

He presented a paper titled **"Alternation of landscape: Disaster unnoticed"**

Dr. (Mrs.) C. Mahendranathan was invited as a Resource Person to deliver a guest lecture at the **International conference in Recent Trends in Life Sciences** organized by the Department of Botany and Research Center and Indian Microbiology Society at the New Arts, Commerce and Science College, Maharashtra, India. 29-30 December 2017.

She presented a paper titled on **"Controlling plant diseases using induced resistance"**.



Dr T Mathiventhan was invited as a resource person for **a regional workshop on Conservation and sustainable use of mangrove ecosystems in Batticaloa, Sri Lanka**. This was organized by the Ministry of Mahaweli Development and Environment, on December 7, 2017.

He presented a paper titled **"Mangrove of Batticaloa: Uses, threats and Issues"**.

Dr (Mrs) C. Mahendranthan, Senior Lecturer in Botany, has participated the Training of Trainers (ToT) programme on "Sustainable Consumption & Production" (20-22 December 2017) organized by the Ministry of Mahaweli Development & Environment, for senior academics from all universities.



Strengthening of Staff – Foreign Visits and Training...

University Technical Officers Enhancement Programme Has been organized at the University Community Transformation Centre (UCTC), University of Putra, Malaysia.

Mr T Kugathasan, Staff Technical Officer Gr1., Department of Botany, participated in this programme.



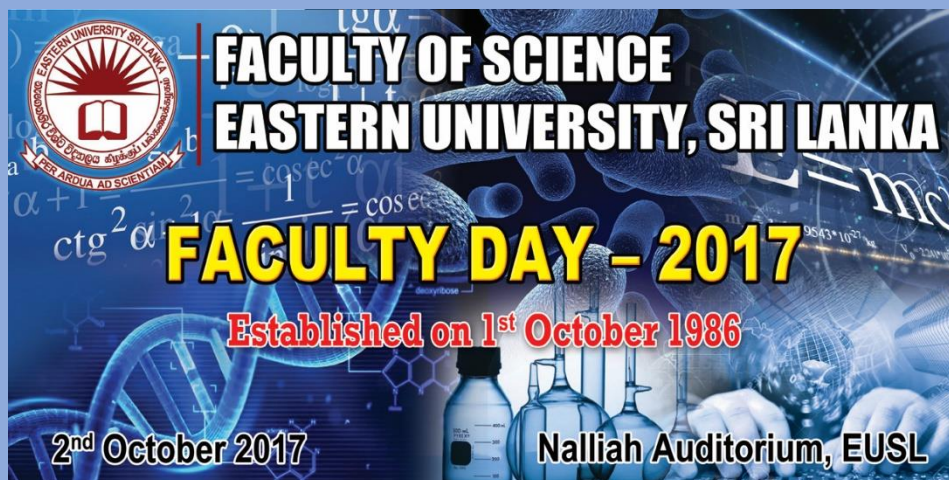
Professional Development Course for Technical Officers of Eastern University has been organized at the AIT Extension Centre, Thailand.

Mrs S Thayalan, Staff Technical Officer Gr1., Department of Botany, participated in this programme.



First Faculty Day Celebration 2017 ...

Faculty of Science Celebrated its 31st year Celebration on October 2, 2017. The celebration focused on Siramadana, Quiz competition for undergraduates, Practical sessions for A/L school students and Staff-Student cricket tournament



First Faculty Day Celebration 2017 ...cont.

Memorable moments...



Faculty Memories ...



Above:

Graduants with their Faculty staff/Science: Special General Convocation, November 11, 2017

Below:

Some Pioneers of the Faculty of Science. Sitting, right to left: Dr T Jayasingam, Dr Umarani Coomaraswamy, Rev. Fr Dr L.H. Cramer, Dr Thiyagalingam

Standing, right to left: Mr Vamadevan, Mr Ismail, Mr Omanath, Mr K Nithyananthan, Mr T Vithyaretnam, Ms. Thiresha (Department of Botany).



From the Editor...

Welcome to FOSnews Newsletter,



It is with great pleasure to publish the SECOND volume of the newsletter of the Faculty of Science. The FOSnews will be published every six month and will continue to be a vehicle to reconnoiter the activities or achievements of the Faculty of Science. The Volume 2, Issue 2 is now on your hands.

I would like to sincerely appreciate the Dean/Science, Heads of the Department and Dear colleagues, to give me fullest support to publishing the second volume of FOSnews.

I hope that you will enjoy reading this issue. The Volume 3, Issue 1 will be published in June 2018.

Dr T Mathiventhan
The Editor | FOSnews Newsletter.

Faculty of Science at Eastern University, Sri Lanka (EUSL) has established a reputation for over last 36 years to impart fundamentals of different branches of pure sciences, and has shown interest in maintaining high academic standards.

The faculty, while being committed to the above philosophy, is transforming to meet the modern educational practices and trends by introducing innovative teaching, learning and evaluation strategies, students centered learning (SCL) with the goal of producing graduates with knowledge, skills and attitude to adapt to a range of professional and social environments to work with a concern and passion towards others. The faculty provides a conducive intellectual, social and physical environment in which learning and research may flourish. Apart from undergraduate BSc degree programs, the faculty has been conducting research degree programs (MSc, MPhil and PhD) and taught postgraduate degrees.

Faculty of Science is now engaging in research and development. In future, it focusses on Engineering Technology under the Technological stream, new postgraduate programmes (Diploma and Degree) and community outreach programmes.



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