

KEYNOTE SESSION

THE 19th POSTGRADUATE COLLOQUIUM FACULTY OF SCIENCE AND TECHNOLOGY

10th April 2019 (Wednesday)
Dewan Persidangan, FST

Tentative Programme

- 02.00 pm : Registration of Presenters and Participants
- 02.30 pm : Arrival of Guests
- 02.45 pm : Recital of Doa
- : Welcoming Address
YBhg. Prof. Dr. Mohammad Kassim
Dean, Faculty of Science and Technology
- : Keynote Speaker
YBhg. Prof. Emeritus Dato' Dr. Abdul Razak Salleh
“Nombor Melayu; Membetulkan yang Biasa”
- : Presentation of Souvenirs
- : Photo session
- 03.30 pm : Refreshments
- 03.45 pm : Plenary Session

SESI UCAPTAMA

NOMBOR MELAYU; MEMBETULKAN YANG BIASA

Prof. Emeritus Dato' Dr. Abdul Razak Salleh

ABSTRAK

Dalam ucaptama ini dibincangkan dua perkara, iaitu Nombor Melayu secara etimologi dan pemurnian penulisan dan pembentangan pelajar siswazah di FST, dan umumnya di UKM. Berkaitan dengan nombor Melayu, dijelaskan mengenai nombor-nombor yang jarang atau tidak pernah didengar oleh orang Melayu sendiri, seperti **sepaha, tengah tiga, asal belas, likur, laksa, keti, katrillion, wisyilion** dan **tak terpermanai**. Penggunaan bahasa (Melayu dan Inggeris) yang betul perlu dititik berat oleh para pelajar dari segi ejaan, struktur ayat, istilah, dan penyebutan. Dipaparkan beberapa kesalahan yang sering dilakukan.

KEYNOTE SESSION

MALAY NUMBERS; CORRECTING THE COMMON PRACTICE

Emeritus Professor Dato' Dr. Abdul Razak Salleh

ABSTRACT

In this keynote address we put forward two topics, namely the Malay numbers etymologically and secondly we make some comments on the writing and presentation made by graduate students of FST, and in general by students of UKM. Regarding the Malay numbers, we introduce numbers that might not have been heard even by the Malays themselves such as **sepaha, tengah tiga**, origin of **belas, likur, laksa, keti, katrillion, wisyilion** and **tak terpermanai**. Students should use the Malay or English language correctly in their writing and when they are presenting their work; correct grammar, spelling, terminologies and pronunciation. We exhibit some normal mistakes made by the students.

ABSTRACT FOR PLENARY PRESENTATION

Center for Earth Sciences and Environment
Prof. Dr. Mohd Talib Latif
Email: talib@ukm.edu.my

THE IMPACT OF BIOMASS BURNING ON AIR QUALITY IN SOUTH-EAST ASIA AND MALAYSIA

ABSTRACT

Haze from peat combustions and biomass burning affects large numbers of people in the affected Southeast Asian countries. "Slash and burn" agricultural activities, deforestation and oil palm plantations on peat areas, were identified as the contributing factors to high intensity combustions. The high amount of suspended particulate matter in the haze deteriorates the air quality, causing low visibility. The dry periods caused by the El Niño – Southern Oscillation (ENSO) prolong the duration of poor air quality. The composition of particulate matter in haze samples indicates that haze is dominated by fine particles. Particulate matter collected during haze episodes was dominated by organic substances and secondary inorganic aerosols, mostly originating from biomass burning regions. Haze episodes have contributed to increasing hospital attendees for treatments related to chronic obstructive pulmonary diseases, upper respiratory infections, asthma and rhinitis. Children and senior citizens are more likely to suffer the health impacts.

Keywords; Biomass burning; haze episode; El Niño; particulate matter; health impact

Center for Biotechnology and Functional Food
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USE OF STEVIA REBAUDIANA AS A NON-CALORIC SWEETENER IN SWEET TASTING FOODS

ABSTRACT

In recent years, Malaysia has experienced an alarming level of non-communicable diseases which include diabetes and obesity. Although both conditions are caused by multiple factors, consumption of high level of sugar has been blamed as the main contributing factor. Several non-caloric sweeteners has been produced to substitute the use of sugar thus reducing sugar intake. Among the categories are natural sweeteners, sugar alcohols and synthetic sweeteners. With concerns regarding cancer and the trend towards natural food ingredients, use of stevia, which is categorised as a natural sweetener, has gained popularity. Stevia sweeteners commonly comprised of steviol glycoside and reboudioside A. Although stevia sweeteners are 200-300 times sweeter than sugar, it leaves a lingering bitter aftertaste when consumed. Due to this, previous use of stevia sweeteners has been limited to foods with a certain degree of bitterness such as chocolate, coffee, cola. However, due to the higher level of sugar in sweet tasting foods, it is of importance to study the effects of using stevia sweeteners in sweet tasting foods.

Keywords : Stevia rebaudiana, sugar, sweetener, sweet, steviol glycosides, reboudioside A

Center for Ecosystem Management and Natural Resources
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ZOOTHERAPEUTIC RESOURCES: PROBLEMS, PROGRESS, AND PROSPECTS

ABSTRACT

The healing of human ailments by using therapeutics that are obtained from animals (not limited to hormone, enzymes, animal extractives, organs and bile acids) are known as zootherapy. In Malaysia, species of animals that has been exploited for these purposes are very limited due to religions, cultures and public believes. Alternatively, we are more prone to exploit therapeutic compound from plants which limit our potential to discover new therapeutic strategies. Everyday new zootherapeutic compound has been found all over the world and sadly some finding does not credit the country or nation which this animal or compound originated. We will be left behind if we do not capitalize on our own massive zoological diversity. However, to fully endorse such exploitation could be detrimental to the nation biodiversity as overexploitation of potential beneficial species may cause cascade of undesirable effect, such as depletion of genetic pool, destruction of habitat and extinction of whole species. This forewarn statement maybe an exaggeration but history have shown that in order to mass produced some economical important crops, a whole forest has been annexed, destroying habitats, species and the environment. Research on zootherapy should be done in a sustainable manner with consideration on the welfare of the medicinal animals, genetic population, habitat and impacts on the environment.

Center for Advanced Materials and Renewable Resources

Prof. Dr. Rusli Daik

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BIOPOLYMERS IN HEALTH SCIENCE RESEARCH

ABSTRACT

The talk briefly highlights some aspects of health science researches including anti-bacterial polymers, soluble bacterial polymers and polymeric disinfectant, by which biopolymers are specifically involved. Few examples and insights are addressed to underline the spacious room of opportunity for those with intention to widen their research horizons. A specific example on development of a novel organogel by using biodegradable polymers that is produced from oil palm empty fruit bunch (OPEFB) derived monomers is also addressed. The focus is on the hydrophobic drug carrier with increased biocompatibility and penetration of the drugs. Succinic acid monomer was produced from OPEFB cellulose by using enzymatic and fermentation process. Enzymatic polymerization was conducted using succinic acid and alcohol to produce several biodegradable polyesters with highest molecular weight of 6.20×10^4 g/mol. 4-Hydroxybenzoic acid monomer was produced from lignin of OPEFB by using enzymatic hydrolysis. Oleic acid was used as a lipid phase in the system and also as a penetration enhancer, whereas curcumin was used as a model of hydrophobic drug. Furthermore, in vitro permeation study was conducted to determine the capability of the polymer organogel as topical drug carrier. The comparative analysis was performed using Franz diffusion cell and soy lecithin organogel was used as control. Polymer organogel that was prepared from a mixture of 4-hydroxybenzoic acid and poly (ethylene succinate) showed the highest cumulative permeation and drug flux compared to other organogels. Stability of organogels was determined by physical assessment at 4oC, 25oC, and 40oC and the drug content (curcumin) was determined with High Performance Liquid Chromatography (HPLC). The characterization of organogel was also carried out by using Thermogravimetric Analysis (TGA), Fourier Transform Infrared (FTIR) Spectroscopy, Nuclear Magnetic Resonance (NMR) Spectroscopy, Texture Analyser, Rheometer, and Optical Microscopy.

Center for Modelling and Data Science
Dr. Nurul Kamal Masseran
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ON THE IDENTIFICATION OF EXTREME OUTLIERS IN THE UPPER TAIL OF INCOME DISTRIBUTION

ABSTRACT

The presence of extreme outliers in the upper tail data of income distribution affects the Pareto tail modeling. A simulation study is carried out to compare the performance of three types of boxplot in detection of extreme outliers for Pareto data, including standard boxplot, adjusted boxplot and generalized boxplot. It is found that the generalized boxplot is the best method for determining extreme outliers for Pareto distributed data. For the application, the generalized boxplot is utilized for determining the extreme outliers in upper tail of Malaysian income distribution. In addition, for this data set, confidence interval method is applied for examining the presence of dragon-kings, extreme outliers which are beyond the Pareto or power-laws distribution.

Keywords: Income distribution; Pareto model; Generalized boxplot; extreme outliers; probability integral transform statistics.

Center for Frontier Sciences
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SOLAR ACTIVITY AND ITS EFFECTS ON THE EARTH'S IONOSPHERIC CURRENT SYSTEM

ABSTRACT

The year of 2019 is expected to be the beginning of a new solar cycle after the Sun has reached solar minimum phase in its 11-year cycle. Numerous solar activities have been recorded during the maximum phase that is in 2012-2014. During this phase, statistical studies reported that some solar flare events are associated with coronal mass ejection phenomenon. These solar activities trigger space weather effect that consequently affect the Earth's atmosphere and interfere with our communication system. Common Solar Flare Effect (SFE) is the sudden increment in Earth's ionospheric current which is commonly monitored using geomagnetic data, and known as positive crochets. The known features of the SFE current system are similar with the well-known solar quiet (Sq) current pattern; i.e. a counterclockwise vortex on the dayside of the Northern Hemisphere and a clockwise vortex on the dayside of the Southern Hemisphere. Recent study however has revealed unusual solar flare effect after critically examining global ionospheric current using model from the Spherical Harmonic Analysis (SHA). The analysis began with investigation of geomagnetic data at magnetic equator which was then expanded to nearly 160 magnetometer stations around the world. Out of 52 solar flare events studied, the X6.9 solar flare on 9th August 2011 has shown a unique effect where for the first time, only negative crochets, indicating reduction in ionospheric currents, were observed in all equatorial dayside magnetic data. Moreover, results of SHA show SFE current pattern during this event are different from the background Sq current system where multiple current cells can be seen in both Northern and Southern Hemispheres. The reason for this unusual response of the ionosphere during this particular solar activity is yet to be understood and future study is required to explain this phenomenon.

COLLOQUIUM SCHEDULE

10th APRIL 2019, WEDNESDAY

TIME	EVENT		VENUE
2.00 pm – 2.30 pm	Registration		Dewan Persidangan
2.30 pm – 3.30 pm	Keynote Session: “ Nombor Melayu; Membetulkan yang Biasa ” YBhg. Prof. Emeritus Dato’ Dr. Abdul Razak Salleh		Dewan Persidangan
3.30 pm – 4.00 pm	Refreshments		
4.00 pm – 5.00 pm	Plenary Session	Center for Earth Sciences and Environment Prof. Dr. Mohd Talib Latif Session Chair: Dr. Marlia Mohd. Hanafiah	Dewan Persidangan
		Center for Biotechnology and Functional Food Assoc. Prof. Dr. Mohamad Yusof Maskat Session Chair : Assoc. Prof. Dr. Sahilah Abd Mutalib	DKB1
		Center for Ecosystem Management and Natural Resources Dr. Mohd Shazrul Fazry bin Sa’ariwijaya Session Chair : Assoc. Prof. Dr. Salmah Yaakop	DKB2
		Center for Advanced Materials and Renewable Resources Prof. Dr. Rusli Daik Session Chair : Assoc. Prof. Dr. Siti Aishah Hasbullah	Bilik Seminar Dekan 1
		Center for Modelling and Data Science Dr. Nurul Kamal Masseran Session Chair : Prof. Dr. Anuar Ishak	Bilik Seminar Dekan 2
		Center for Frontier Sciences Dr. Nurul Shazana Abdul Hamid Session Chair: Assoc. Prof. Dr. Mohammad Hafizzudin Jumali	Makmal Komputer 1
End of Colloquium			

11th APRIL 2019, THURSDAY

TIME	EVENT		VENUE
8.00 am – 8.30 am	Breakfast		
8.30 am – 12.30pm	Presentation Session 1	Center for Ecosystem Management and Natural Resources Biology	DKG130BB
		Center for Ecosystem Management and Natural Resources Botany Zoology	DKG129BB
		Center for Earth Sciences and Environment Geology Ocean Science	BS1114F
		Center for Earth Sciences and Environment Environmental Sciences 1	DKG111F
		Center for Biotechnology and Functional Food Microbiology	BS1115F
		Center for Ecosystem Management and Natural Resources Center for Biotechnology and Functional Food Genetics Molecular Biology Biochemistry	BSL123CK
		Center for Biotechnology and Functional Food Food Science	Dewan Anuwar Mahmud (DAM)
		Center for Frontier Sciences Physics	BS2114F
		Center for Frontier Sciences Material Science	BS2113F
		Center for Advanced Materials and Renewable Resources Chemistry 1	BSL123BK
	Center for Modelling and Data Science Mathematics 1	DKG126G	
12.30 pm – 2.00 pm	Lunch		
2.00 pm – 4.30 pm	Presentation Session 2	Center for Earth Sciences and Environment Environmental Sciences 2	DKG111F
		Center for Advanced Materials and Renewable Resources Chemistry 2	BSL123BK
		Center for Frontier Sciences Nuclear Science Energy Technology	BS1115F
		Center for Modelling and Data Science Mathematics 2 Statistics	BS1114F
4.30 pm	Refreshments		
End of Colloquium			

PRESENTATION SESSION 1

11th APRIL 2019, THURSDAY

SESSION 1 : CENTER FOR ECOSYSTEM MANAGEMENT AND NATURAL RESOURCES – BIOLOGY

Assessor : Assoc. Prof. Dr. Haja Maideen Kader Maideen
 : Assoc. Prof. Dr. Salmah Yaakop
 : Dr. Johari Jalinis

Venue : DKG130BB
 Time : 8.30 am – 12.30 pm

Code	Presenter/ Programme	Title of Presentation	Supervisor
BIO1	Norlinda Binti Mohd. Daut P81778 PhD (Biology)	Age Differences by Physical Characteristics and Group Composition of Primates in Bukit Malawati, Kuala Selangor.	Prof. Dr. Badrul Munir Md Zain Assoc. Prof. Dr. Salmah Yaakop Assoc. Prof. Dr. Ikki Matsuda
BIO2	Mohd Hashim Bin Abu P67763 PhD (Biology)	Social Behavior of Maroon Langur (<i>Presbytis rubicunda chrysea</i>) at Tawau Hill Park, Sabah.	Prof. Dr. Badrul Munir Md Zain
BIO3	Siti Fatimah Muhammad Salim P83393 PhD (Biology)	Effect of Heavy Metal (Cadmium) on Morphological Characteristic of Paddy Plant (<i>Oryza Sativa</i>) in Green House and Open Roof Carbon Dioxide Glass House.	Assoc. Prof. Dr. Khairiah Jusoh
BIO4	Nur Syazwani Binti Mohamad Basir P86202 PhD (Biology)	Distribution of Trichomes in <i>Rafflesia cantleyi</i> Solms-Laubach (Rafflesiaceae).	Assoc. Prof. Dr. Wee Suk Ling
BIO5	Nabilah Binti Zainol P88866 PhD (Biology)	Assessment of Viaducts for Wildlife Crossing in Primary Linkage 7, Tembat Forest Reserve, Hulu Terengganu, Terengganu, Peninsular Malaysia.	Prof. Dr. Shukor Md Nor
BIO6	Nur Izzati Binti Abdullah P90573 PhD (Biology)	Diversity of Small Mammals in Tekai Forest Reserve, Pahang, Peninsular Malaysia.	Prof. Dr. Shukor Md Nor
BIO7	Mohd Nazarudin Bin Anuar P91890 MSc (Biology)	Screening of Malaysian Brinjal Accessions Against Root Knot Nematode (<i>Meloidogyne Incognita</i>) Infestation.	Dr. Noraziyah Abd Aziz Shamsudin
BIO8	Puteri Dinie Ellina Zulkafli P93778 MSc (Biology)	Evaluation of Morpho-physiological and Agronomical Traits of Rice Genotypes under Organic Cultivation System.	Dr. Noraziyah Abd Aziz Shamsudin
BIO9	Siti Nur Fatehah Binti Radzi P94760 MSc (Biology)	Riverine Mangrove Plant Species Composition and Vegetation Structure of the Firefly's Habitat at Sungai Rembau, Negeri Sembilan.	Dr. Shamsul Khamis Assoc. Prof. Dr. Wan Juliana Wan Ahmad Assoc. Prof. Dr. Norela Sulaiman
BIO10	Lailatul Nadhirah Binti Asro P94799 MSc (Biology)	Abundance of Synchronous Firefly in Sungai Rembau Negeri Sembilan.	Dr. Azman Sulaiman

11th APRIL 2019, THURSDAY

SESSION 1 : CENTER FOR ECOSYSTEM MANAGEMENT AND NATURAL RESOURCES – BOTANY
 – ZOOLOGY

Assessor : Assoc. Prof. Dr. Noraini Talip
 : Assoc. Prof. Dr. Che Radziah Che Mohd Zain
 : Dr. Izfa Riza Hazmi
 Venue : DKG129BB
 Time : 8.30 am – 12.30 pm

Code	Presenter/ Programme	Title of Presentation	Supervisor
BOT1	Nur Aliah Binti Mohamad Khaduwi P90283 PhD (Botany)	The Rhizome Scales of Diplazium (Athyriaceae).	Assoc. Prof. Dr. Haja Maideen Kader Maideen
BOT2	Nur Syazwana Binti Munzani P93048 PhD (Botany)	Morphological Variation of the Large-Celled Fissidens Subgenus Aloma Species in Peninsular Malaysia.	Dr. Nik Norhazrina Nik Mohd Kamil
BOT3	Siti Nurfaeiza Binti Abd Razak P93059 PhD (Botany)	Maximum Photosynthesis Efficiency in Response to Light Intensity, Media Types and Nutrient Addition of Shorea leprosula Miq. at Field Condition.	Assoc. Prof. Dr. Wan Juliana Wan Ahmad
BOT4	Nur Hayati Binti Abd Karim P90585 MSc (Botany)	The Microhabitat Condition and Soil Physical Characteristics of Rafflesia R. Br. Population at Royal Belum State Park, Perak.	Dr. Shamsul Khamis Assoc. Prof. Dr. Wan Juliana Wan Ahmad
BOT5	Nur Afiqah Izzati Noh P94404 MSc (Botany)	Effect of Humidity on Plant Dynamics of Two Shade Tolerant Tropical Wilding Species in Nursery.	Assoc. Prof. Dr. Wan Juliana Wan Ahmad
ZOO1	Rabiatul Addawiyah Shamshir P84159 PhD (Zoology)	Comparative dose Response Zeugodacus cucurbitae and Zeugodacus tau (Diptera: Tephritidae) to Raspberry Ketone Between.	Assoc. Prof. Dr. Wee Suk Ling
ZOO2	Noor Nabilah Binti Nazri P88735 PhD (Zoology)	Distribution Pattern of Conflict Malayan Sun Bear (Helarctos malayanus) in Peninsular Malaysia.	Prof. Dr. Shukor Md Nor
ZOO3	Rahaniza Binti Ali Mohd Jobran P94452 MSc (Zoology)	Assessment of Artificial Salt Lick as Habitat Enrichment for Wildlife at Royal Belum State Park, Perak.	Prof. Dr. Shukor Md Nor
ZOO4	Mohd Yusri Bin Zainudin P81735 MSc (Zoology)	Potential of Insect-Based Protein from Black Soldier Fly and Cricket as Alternative Protein Source for Animal Feed.	Assoc. Prof. Dr. Wee Suk Ling
ZOO5	Tan Sue Han P85737 MSc (Zoology)	Insect Visitors of Rafflesia cantleyi.	Assoc. Prof. Dr. Wee Suk Ling
ZOO6	Shamsilawani Ahamed Bakeri P81147 MSc (Zoology)	Population Dynamics of Adults Oryctes. Rhinoceros and its Developmental Stages in a Zero Burning Replanting Areas of Felcra Lekir, Sitiawan, Perak.	Dr. Johari Jalinas
ZOO7	Affan Nasruddin Roshidi P90688 MSc (Zoology)	Bird Species Diversity on Tropical Land-Bridge Islands in the Puah Lake, Hulu Terengganu, Peninsular Malaysia.	Dr. Mohammad Saiful Mansor

11th APRIL 2019, THURSDAY

SESSION 1 : CENTER FOR EARTH SCIENCES AND ENVIRONMENT – GEOLOGY
 – OCEAN SCIENCE

Assessor : Assoc. Prof. Dr. Azman Abdul Rahim

: Dr. Mohd Hariri Arifin

Venue : BS1114F

Time : 8.30 am – 12.30 pm

Code	Presenter/ Programme	Title of Presentation	Supervisor
GEO1	Abdul Hadi Bin Hashim P87962 MSc (Geology)	Clay Minerals and its Implications for Quaternary Palaeoclimate Investigation: a Case Study from Pontian, Johor.	Assoc. Prof. Dr. Habibah Jamil
GEO2	Mazlinalina Mohd Zin P93101 MSc (Geology)	Sulphur Isotopes in the Buffalo Reef Gold Deposit, Pahang, Peninsular Malaysia.	Dr. Mohd Basril Iswadi Basori
GEO3	Nur Syafiqah Idayu Binti Azmi P94565 MSc (Geology)	Determination of Thorium and Rare Earth Elements in River and Ex-Mining Sand Deposits.	Dr. Mohd Basril Iswadi Basori
OCS1	Yeny Nadira Binti Kamaruzzaman P86187 PhD (Ocean Science)	Predicting Potential Fishing Grounds of The Indian Mackerel using Boosted Regression Trees.	Assoc. Prof. Dr. Muzzneena Ahmad Mustapha
OCS2	Noor Affizah Binti Bujang Salli P90575 PhD (Ocean Science)	Preliminary Study on 210pb Activities in Estuarine Ecosystem of Johor Straits.	Prof. Dr. Che Abd Rahim Mohamed
OCS3	Philipp Golovchenko P90676 PhD (Ocean Science)	Ocean Surface Albedo Calculation Development in Case of Phytoplankton Pigments Absorption In Coastal Area Upper-Layers of The Equatorial Region.	Assoc. Prof. Dr. Liew Ju Neng
OCS4	Siti Amalia Binti Zulkafli P89601 MSc (Ocean Science)	NCEP CFsv2 Predictive Skill for Seasonal Precipitation & Surface Air Temperature Over Southeast Asia.	Assoc. Prof. Dr. Liew Ju Neng
OCS5	Abdul Azim Bin Amirudin P94165 MSc (Ocean Science)	Assessment of the WRF model in High Resolution Simulations of Precipitation over Peninsular Malaysia using different Parameterization Scheme.	Dr. Ester Salimun

11th APRIL 2019, THURSDAY

SESSION 1 : CENTER FOR EARTH SCIENCES AND ENVIRONMENT – ENVIRONMENTAL SCIENCES 1

Assessor : Dr. Norshahidah Mohd Nazer

: Dr. Marlia Mohd Hanafiah

Venue : DKG111F

Time : 8.30 am – 12.30 pm

Code	Presenter/ Programme	Title of Presentation	Supervisor
ES1	Baseem Tamimi P76866 PhD (Environmental Sciences)	Mangrove Plant Growth Responses and Adaptation to Elevated Carbon Dioxide Concentration and Air Temperature under Controlled Environment.	Assoc. Prof. Dr. Wan Juliana Wan Ahmad
ES2	Jauda R. Jauda Hamad P85826 PhD (Environmental Sciences)	Identifying the Public Perception on the Main Constraints of Water Supply Shortages and its Availability In Libya.	Assoc. Prof. Dr. Wan Zuhairi Bin Wan Yaacob
ES3	Farah Diyana Binti Ariffin P90683 PhD (Environmental Sciences)	The Water Quality of Clarias gariepinus Pond Farm Effluent.	Assoc. Prof. Dr. Azhar Abdul Halim
ES4	Nor Hafizah Binti Baharudin P93115 PhD (Environmental Sciences)	Improving Resilience to Atmospheric Hazards in Kuala Lumpur Through Urban Scale Modeling.	Prof. Dr. Mohd Talib Latif
ES5	Hanashriah Bt Hassan P86573 PhD (Environmental Sciences)	Carbonaceous Abundances of Pm2.5 in Petaling Jaya Urban Environment.	Prof. Dr. Mohd Talib Latif
ES6	Nor Faizah Binti M M K Noorulhudha P88230 PhD (Environmental Sciences)	Lead-210 and Polonium-210 in water column of East Coast Peninsular Malaysia.	Prof. Dr. Che Abd Rahim Mohamed
ES7	Shazana Sharir P88734 PhD (Environmental Sciences)	Ichthyofaunal Diversity of Tiang River in Royal Belum Forest Reserve, Malaysia.	Prof. Dr. Shukor Md Nor
ES8	Nurul Atikah Binti Tajul Ariffin P93049 PhD (Environmental Sciences)	Potential Distribution of Malayan Gaur (Bos gaurus) using Maximum Entropy Modeling.	Assoc. Prof. Dr. Muzzneena Ahmad Mustapha
ES9	Nur Fatin Binti Khodri P93050 PhD (Environmental Sciences)	Prediction of Leopard Habitat Suitability in Taman Negara Main Forest Complex.	Assoc. Prof. Dr. Tukimat Lihan
ES10	Nur Ezzah Syazana Binti Mohd Azmi P92623 MSc (Environmental Sciences)	Paddy Soil Physico-Chemical At Iada Ketara, Terengganu and Mada, Kedah.	Assoc. Prof. Dr. Khairiah Jusoh
ES11	Nadia Aqilla Binti Shamsusah P89016 MSc (Environmental Sciences)	Detection and Characterization of Leptospira spp. among Orangutans and Rangers in Bukit Merah Orangutan Island (BMOUI), Perak.	Dr. Hani Kartini Agustar

11th APRIL 2019, THURSDAY

SESSION 1 : CENTER FOR BIOTECHNOLOGY AND FUNCTIONAL FOOD – MICROBIOLOGY

Assessor : Dr. Mohd Fareed Mohd Sairi
 : Dr. Nazlina Haiza Mohd Yasin

Venue : BS1115F

Time : 8.30 am – 12.30 pm

Code	Presenter/ Programme	Title of Presentation	Supervisor
MBIO1	Nor Aishah Bt Salleh P84099 PhD (Microbiology)	Screening for Virulence Factors and Antibiotic Resistance Test for Bacteria Isolated from Ballast Water.	Dr. Fathul Karim Sahrani
MBIO2	Muhamad Afiq Bin Mohamed Akbar P90320 PhD (Microbiology)	Transcriptomic Characterization of the Toxigenic Marine Dinoflagellate <i>Alexandrium minutum</i> with Emphasis of Saxitoxin Production Genes.	Dr. Fathul Karim Sahrani
MBIO3	Noor Zarina Abd Wahab P85779 PhD (Microbiology)	<i>In vitro</i> Antiviral Activity of Styrylpyrone Derivative against Dengue Virus Type 2.	Assoc.Prof. Dr. Nazlina Ibrahim
MBIO4	Abeer Ameen P91431 PhD (Microbiology)	Isolation and Characterization of Bacteriophage with Lytic Activity against Carbapenem Resistance Strain of <i>Klebsiella pneumonia</i> .	Dr. Norefrina Shafinaz Binti Md Nor
MBIO5	Emmyrafedziawati Aida Binti Kamal Rafedzi P92202 PhD (Microbiology)	Isolation of Thermotolerant Plant Growth Promoting Rhizobacteria as a Bacteria-Mediated Drought Tolerance.	Assoc. Prof. Dr. Abdul Munir Abd. Murad
MBIO6	Ayesha Firdose P89055 PhD (Microbiology)	Production of Rhamnolipid Biosurfactant from <i>Pseudomonas aeruginosa</i> UKMP14T.	Dr. Wan Syaidatul Aqma Wan Mohd Noor
MBIO7	Sakinah Binti Safari P84494 MSc (Microbiology)	Cultivation-Based and Molecular Assessment of Bacterial Diversity in Sarawak Peat Forest Conversion to Oil Palm Plantation.	Dr. Wan Syaidatul Aqma Wan Mohd Noor
MBIO8	Nur Athirah Binti Ahmad Jailani P91430 MSc (Microbiology)	Effect of Agitation Speed on Growth and Lipid Production of <i>Aurantiochytrium</i> sp. SW1 using High Fructose Corn Syrup (Hfcs) as a Sole Carbon Source.	Prof. Dr. Aidil Abdul Hamid

11th APRIL 2019, THURSDAY

**SESSION 1 : CENTER FOR ECOSYSTEM MANAGEMENT AND NATURAL RESOURCES – GENETICS
 : CENTER FOR BIOTECHNOLOGY AND FUNCTIONAL FOOD – MOLECULAR BIOLOGY
 – BIOCHEMISTRY**

Assessor : Assoc. Prof. Dr. Choong Chee Yen
 : Assoc. Prof. Dr. Nazlina Ibrahim
 : Dr. Izyanti Ibrahim

Venue : BSL123K

Time : 8.30 am – 12.30 pm

Code	Presenter/ Programme	Title of Presentation	Supervisor
GEN1	Mohd Ikmal Bin Asmuni P90282 PhD (Genetic)	Confirmation of F1 hybrids from crossings between drought tolerant lines and IR64-Sub1.	Dr. Noraziyah Abd Aziz Shamsudin
GEN2	Amira Binti Ismail P94166 MSc (Genetic)	Development of New High Yielding Rice with Tolerance to Multiple Biotic and Abiotic Stresses.	Dr. Noraziyah Abd Aziz Shamsudin
GEN3	Fadila Binti Ahmad Malike P94408 MSc (Genetic)	Bunch Yield of Oil Palm (<i>Elaeis guineensis</i> Jacq.) Deli Dura x MPOB-Nigeria Pisifera and Deli Dura x AVROS Pisifera (DxP).	Dr. Noraziyah Abd Aziz Shamsudin
GEN4	Ilakiya Sharanee Kumar P94568 MSc (Genetic)	Quantitative Resistance against Bacterial Leaf Blight in Rice.	Prof. Dr. Kalaivani Nadarajah
MOBIO1	Siti Putri Farahinajua Binti Fikri P90287 MSc (Molecular Biology)	Characterisation of Insecticide Resistance in Field Collected <i>Aedes aegypti</i> from Dengue Hotspot Areas.	Prof. Dr. Wan Kiew Lian
MOBIO2	Roziyah Ali P91429 MSc (Molecular Biology)	Detection and Distribution of Zika Virus in Vector Mosquitoes Collected In Malaysia.	Prof. Dr. Wan Kiew Lian
MOBIO3	Haslina Binti Makmur P94683 MSc (Molecular Biology)	Insights Into Transfer RNA Expression under Various Conditions in <i>Burkholderia pseudomallei</i> .	Assoc. Prof. Dr. Mohd Firdaus Mohd Raih Dr. Shairah Abdul Razak
BIOC1	Khairul Azreena Binti Bakar P94242 MSc (Biochemistry)	Interaction of Diosgenin with Human Serum Albumin: Location of Binding Site.	Dr. Shevin Rizal Feroz

11th APRIL 2019, THURSDAY

**SESSION 1 : CENTER FOR BIOTECHNOLOGY AND FUNCTIONAL FOOD – FOOD SCIENCE
 – NUTRITION**

Assessor : Assoc. Prof. Dr. Sahilah Abd Mutalib
 : Dr. Zalifah Mohd Kasim
 Venue : Dewan Anuwar Mahmud (DAM)
 Time : 8.30 am – 12.30 pm

Code	Presenter/ Programme	Title of Presentation	Supervisor
FS1	Aminuddin Hussin P88990 PhD (Food Science)	The Potential of Local Sweet Potato Varieties and Lactic Acid Bacteria for the Development of Functional Food.	Dr. Norrakiah Abdullah Sani
FS2	Nazaratul Ashifa Abdullah Salim P94130 PhD (Food Science)	Geographical Identification of Rice Cultivar <i>Oryza sativa</i> 'Mr 220cl' from West Coast Peninsular Malaysia using Elemental and Isotopic Profiling.	Dr. Norlida Mat Daud
FS3	Hazimah Binti Mohd Aris P94131 PhD (Food Science)	Antioxidant Potential of Freeze Dried and Spray Dried Edible Bird's Nest Hydrolysate Powder.	Dr. Zalifah Mohd Kasim
FS4	Nurul Nuraliya Binti Shahrai P89488 MSc (Food Science)	Physicochemical and Sensory Properties of Ribeye Steak from Wagyu and Kedah Kelantan Cattle.	Dr. Salma Mohamad Yusop
FS5	Ain Nadiyah Sofiah Bt Ahmad Khorairi P94798 MSc (Food Science)	Extraction and Characterization of Cellulose from Pepper (<i>Piper nigrum</i> L.) Pericarp Waste.	Dr. Noor Soffalina Sofian Seng
FS6	Nurul Hasimah Kasmin P96484 MSc (Food Science)	Relationship Between Yield, Quality and Ripeness of Oil Palm Fruit.	Dr. Saiful Irwan Zubairi
FS7	Nur Afifah Mohd Fauziee P94455 MSc (Food Science)	Fucoidan, Alginate and Laminaran from Malaysian Brown Seaweeds (<i>Sargassum polycystum</i> , <i>Turbinaria ornata</i> and <i>Padina boryana</i>)	Dr. Lim Seng Joe
FS8	Alvin Ling Jin Wei P97205 MSc (Food Science)	Physicochemical Characteristics and Antioxidant Activity of EBN Glycopeptides Recovered from EBN Processing Co-products.	Dr. Lim Seng Joe
FS9	Mun Sue Lian P97206 MSc (Food Science)	Chemical Properties and Antioxidant Activities of Different Molecular Weight Fractions of Edible Bird's Nest.	Dr. Lim Seng Joe
NUT1	Maisara Waheeda Binti Adnan P93029 MSc (Nutrition)	Effects of Running on Body Composition and Cardiorespiratory Fitness among Young Adults.	Dr. Razalee Sedek
NUT2	Siti Fatimah Bt Mohd Tarmizi P93110 MSc (Nutrition)	Consumption Frequency and Proximate Composition of Selected Malaysian Ready-To-Eat Food.	Dr. Norlida Mat Daud
NUT3	Nurul Najiha Ain Binti Ibrahim P94284 MSc (Nutrition)	Effect of Different Drying Techniques and Solvent Ratios on Antioxidant Properties of <i>Curcuma caesia</i> (Kunyit Hitam) Extract.	Dr. Hafeedza Bt Abdul Rahman
NUT4	Muhyuddin Bin Md Nasir P94285 MSc (Nutrition)	<i>Ziziphus mauritiana</i> (Bidara) Fruit: Proximate Analysis and Antioxidant Properties of Its Supercritical Fluid Extract.	Dr. Arnida Hani Teh

11th APRIL 2019, THURSDAY

SESSION 1 : CENTER FOR FRONTIER SCIENCES – PHYSICS

Assessor : Assoc. Prof. Dr. Noor Baa'yah Ibrahim
 : Dr. Nur Adlyka Ainul Annuar

Venue : BS2114F

Time : 8.30 am – 12.30 pm

Code	Presenter/ Programme	Title of Presentation	Supervisor
PHY1	Zahra Talal Yousef P89038 PhD (Physics)	Physical Parameters of HIP101227 as a Binary System.	Dr. Nurul Shazana Abdul Hamid
PHY2	Sameer Nabeel Hassan Albat P90631 PhD (Physics)	Förster Resonance Energy Transfer in Poly-9, 9-Dioctylfluorene / Poly (2-Methoxy-5(2-Ethylhexyl)-1, 4-Phenylenevinylene Blend Thin Films.	Assoc. Prof. Dr. Mohammad Hafizuddin Hj. Jumali
PHY3	Ibtehaj Zoheer Khalid Khatatbeh P90632 PhD (Physics)	Production of PVDF Nanofibers by Homemade Centrifugal Spinning System (CSS).	Assoc. Prof. Dr. Mohammad Hafizuddin Hj. Jumali
PHY4	Ensaf Mohammed Nassir Alkhalqi P92953 PhD (Physics)	Zinc Oxide Thin Film with Different Number of Layers Synthesized Via Sol Gel Process, The Structural, Opteical and Topographical Properties.	Assoc. Prof. Dr. Muhammad Azmi Abdul Hamid
PHY5	Nurul Nadhirah Binti Md Ridzuan P84080 MSc (Physics)	Effect of Immersion Temperature of Bi2S3 Thin Film on Performance of Inverted Organic Solar Cell.	Assoc. Prof. Dr. Yap Chi Chin
PHY6	Nurul Aiman Binti Mhd Safri P97523 MSc (Physics)	Performance of Solar Greenhouse Dryer With Collector.	Assoc. Prof. Dr. Zahari Ibrahim
PHY7	Muhammad Faisal Mustaqim Bin Kamal P93148 MSc (Physics)	Effect of Different Sense Capacitor Types of o Self-Built Ferroelectric Measurement System on the Polarization Hysteresis.	Dr. Zalita Zainuddin
PHY8	Norliyana Binti Mustapar P94561 MSc (Physics)	Effect of Activation Temperature on Biomass Precursor to Enhanced Electrochemical Performance of Supercapacitors.	Dr. Mohd Amir Radhi Othman
PHY9	Khairussyifa' Binti Shukri P94757 MSc (Physics)	Effect of Optimum Ratio of Manganese Oxide for Supercapacitor Electrode.	Dr. Mohd Amir Radhi Othman

11th APRIL 2019, THURSDAY

SESSION 1 : CENTER FOR FRONTIER SCIENCES – MATERIAL SCIENCE

Assessor : Assoc. Prof. Dr. Muhammad Azmi Abdul Hamid

: Assoc. Prof. Dr. Mohammad Hafizuddin Jumali

Venue : BS2113F

Time : 8.30 am – 12.30 pm

Code	Presenter/ Programme	Title of Presentation	Supervisor
MTSC1	Mohd Adly Rahmat Bin Saat P85019 PhD (Materials Science)	Mechanical Characteristic of High Shear Mixing of Polyethylene-Polyethylene Terephthalate-Polystyrene-Polypropylene for Recycling Application.	Assoc. Prof. Dr. Rozaidi Rasid
MTSC2	Nur Akma Binti Mahat P94570 PhD (Materials Science)	Polysulfone Membrane Doped with Carbon Quantum Dots For Reverse Osmosis Performance.	Dr. Siti Aisyah Binti Shamsudin
MTSC3	Mohd Sofian Alias P90684 PhD (Materials Science)	Green Corrosion Coating using POBUA on Mild Steel.	Assoc. Prof. Dr. Norinsan Kamil Othman
MTSC4	Mazlan Bin Shah P92713 PhD (Materials Science)	Effect of Pitting Corrosion Behaviour in H ₂ S Gas on 316l Stainless Steel.	Assoc. Prof. Dr. Norinsan Kamil Othman
MTSC5	Rabiahul Binti Zulkafli P94398 PhD (Materials Science)	The Effect of Co ₂ Gas on Microbiologically Influenced Corrosion of Api X65 Carbon Steel.	Assoc. Prof. Dr. Norinsan Kamil Othman
MTSC6	Mohamad Jani Bin Saad P88819 PhD (Materials Science)	Properties of the Rice Straw Activated Carbon with Koh.	Assoc. Prof. Dr. Chia Chin Hua
MTSC7	Azima Binti Azmi P92199 PhD (Materials Science)	Zinc Oxide Filled-Cellulose Nanofibrils Aerogel (CNF-ZnO) for Catalytic Decomposition of Organic Dye in Aqueous Solution.	Assoc. Prof. Dr. Chia Chin Hua
MTSC8	Aina Shasha Binti Hashimi P92879 PhD (Materials Science)	Copper Nanowires as Simple and Recyclable Catalyst for Rapid Reduction of 4-Nitrophenol.	Assoc. Prof. Dr. Chia Chin Hua
MTSC9	Muhammad Amirul Nazhif Bin Mohd Nohan P92881 MSc (Materials Science)	High Stability Binder Free Cnts/ Rgo Electrode for Treatment of Methylene Blue using Electro-Fenton Oxidation Process.	Assoc. Prof. Dr. Chia Chin Hua
MTSC10	Nur Amira Binti Zainul Armir P94401 MSc (Materials Science)	A Study of Raw Materials Consumption in Peninsular Malaysia Timber Industry.	Prof. Dr. Sarani Zakaria
MTSC11	Afiqah Omar P94758 MSc (Materials Science)	Effect of Nanoclay on Tensile Properties of PLA Nanocomposites.	Prof. Dr. Sahrim Hj. Ahmad

11th APRIL 2019, THURSDAY

SESSION 1 : CENTER FOR ADVANCED MATERIALS AND RENEWABLE RESOURCES – CHEMISTRY 1

Assessor : Prof. Dr. Azizan Ahmad
 : Assoc. Prof. Dr. Siti Aishah Hasbullah
 Venue : BSL123BK
 Time : 8.30 am – 12.30 pm

Code	Presenter/ Programme	Title of Presentation	Supervisor
CHEM1	Alrashidi, Moneer Ayedh A P89777 PhD (Chemistry)	Determination Some Physicochemical Properties of Nigella sativa Seed Oil from Saudi Arabia.	Dr. Mohamad Firdaus Mohamad Yusoff
CHEM2	Sarah Husnaini Binti Zainal P90191 PhD (Chemistry)	Swelling Properties of Cellulose-Based Hydrogel with Different Crosslinking agents.	Assoc. Prof. Dr. Rizafizah Othaman
CHEM3	Siti Zarina Binti Zakuwan P90319 PhD (Chemistry)	Development of Modified Chitosan/Gelatin Membrane for Oil-Water Separation.	Prof. Dr. Ishak Ahmad
CHEM4	Norhidayu Binti Zainuddin P93217 PhD (Chemistry)	Production of 4-Hydroxycinnamic Acid From Oil Palm Empty Fruit Bunch.	Prof. Dr. Rusli Daik
CHEM5	Zetty Shafiqah Othman P92714 PhD (Chemistry)	Optimization of Cinnamaldehyde Extraction and Antioxidant Activity of Cinnamon Extract from Ceylon Cinnamon.	Dr. Nur Hasyareeda Hassan
CHEM6	Murad Awadh Salem Bahadi P90677 PhD (Chemistry)	Preparing Fatty Acids from Crude Palm Kernel Oil And Studying its Physicochemical Characteristics.	Dr. Darfizzi Derawi
CHEM7	Rasyidah Binti A Rozi P93014 MSc (Chemistry)	Separation of Saturated and Unsaturated Fatty Acid in Waste Cooking Oil.	Dr. Darfizzi Derawi
CHEM8	Juraina Md Yusof P80646 MSc (Chemistry)	Effect of Zinc Oxide Seed Layer on Bio-Based Carbon Nanotube Cotton.	Assoc. Prof. Dr. Muhammad Rahimi Yusop
CHEM9	Arniza Mohd Zan P89228 MSc (Chemistry)	Lipase Mediated Synthesis Of Sugar Alcohol Esters As Non-ionic bio-based surfactant.	Assoc. Prof. Dr. Muhammad Rahimi Yusop
CHEM10	Akhsan Kamil Azizi Bin Lokman Hakim P90544 MSc (Chemistry)	Transesterification of Low-Grade Coconut Oil Into Biodiesel using CaO Catalyst Supported with Activated Carbon from Coconut Shell.	Assoc. Prof. Dr. Mohamad Azwani Shah Mat Lazim
CHEM11	Amir Asyraf Abdul Rahman P94824 MSc (Chemistry)	Modification of Malaysian Peat Soil as Support Catalyst for Biodiesel Production from Waste Cooking Oil.	Assoc. Prof. Dr. Mohamad Azwani Shah Mat Lazim

11th APRIL 2019, THURSDAY

SESSION 1 : CENTER FOR MODELLING AND DATA SCIENCE – MATHEMATICS 1

Assessor : Dr. Fatimah Abdul Razak
 : Dr. Syahida Che Dzul-Kifli

Venue : DKG126G

Time : 8.30 am – 12.30 pm

Code	Presenter/ Programme	Title of Presentation	Supervisor
MATH1	Norazlina Binti Abd Razak P47330 PhD (Mathematics)	Firing Pin Impression Based on Feature Fusion of Fractal Dimension and Geometric Moment.	Assoc. Prof. Dr. Liong Choong Yeun
MATH2	Sana Abdulkream Alharbi P90673 PhD (Mathematics)	Assessing the Effect Progress of Abnormal Cells Into Tumor Cells on the Dynamics of the Normal Cell Cycle.	Assoc. Prof. Dr. Azmin Sham binti Rambely
MATH3	Hameed Ur Rehman P89014 PhD (Mathematics)	Second order Hankel Determinant for a Certain Starlike Function of Bi-Univalent Functions.	Prof. Dr. Maslina Darus
MATH4	Suhila .A.M. Elhaddad P89257 PhD (Mathematics)	On Subclass of P-Valent Functions Associated with New Operator Involving Mittag-Leffler Function.	Prof. Dr. Maslina Darus
MATH5	Anas Mohammad Abdullah Al-Masarwah P90674 PhD (Mathematics)	Some Properties of m-Polar ($\tau \in \tau \in V^Q$)-Fuzzy Ideals In Bck/Bci-Algebras.	Prof. Dr. Abd Ghafur Ahmad
MATH6	Majdoleen Zayed Ibrahim Abuqamar P90675 PhD (Mathematics)	Q-Neutrosophic Normal Soft Groups.	Prof. Dr. Abd Ghafur Ahmad
MATH7	Zahari Bin Md Rodzi P94578 PhD (Mathematics)	The Score Distance of Hesitant Fuzzy Sets to Multi- Criteria Decision Making.	Prof. Dr. Abd Ghafur Ahmad
MATH8	Haitham Ali Qawaqneh P88378 PhD (Mathematics)	Fixed Point Results for Modified Cyclic (α) -Admissible with \mathcal{Z} -Contraction Mappings in Metric Like Spaces.	Prof. Dr. Mohd Salmi Md Noorani

PRESENTATION SESSION 2

11th APRIL 2019, THURSDAY

SESSION 2 : CENTER FOR EARTH SCIENCES AND ENVIRONMENT – ENVIRONMENTAL SCIENCES 2

Assessor : Assoc. Prof. Dr. Tukimat Lihan
 : Dr. Wan Mohd Razi Idris

Venue : DKG111F

Time : 2.00 pm – 4.30 pm

Code	Presenter/ Programme	Title of Presentation	Supervisor
ES12	Mohamad Arif Bin Che Abd Rahim P97787 PhD (Environmental Sciences)	Distribution Activity of Natural 210Pb in Surface Sediments of Peninsular Malaysia.	Assoc. Prof. Dr. Masni Binti Mohd Ali Assoc. Prof. Dr. Wan Zuhairi Wan Yaacob Prof. Dr. Che Abd Rahim Mohamed
ES13	Muhamad Safwan Bin Ishak P90681 PhD (Environmental Sciences)	Morphological Diversity of Weedy Rice Accessions in Projek Barat Laut Selangor (Pbls) Compared With Commercial Rice (<i>Oryza sativa</i> L.).	Dr. Khairiatul Mardiana Jansar
ES14	Altaieb Alfarooq Omar Basheer P90670 PhD (Environmental Sciences)	Synthesis Hybrid Carbon Nanotubes by using Cvd for Aluminum Removal from Aqueous Solution.	Dr. Marlia Mohd Hanafiah
ES15	Tarq Alwi Nasser Binalshikabubkr P93366 PhD (Environmental Sciences)	Effect of Two Different Drying Methods on the Proximate Composition of Biofloc.	Dr. Marlia Mohd Hanafiah
ES16	Abbas Abdulameer Azeez P93367 PhD (Environmental Sciences)	Removal of Total Dissolved Solid using Electrocoagulation under Combined Electrical Connection of Electrodes.	Dr. Marlia Mohd Hanafiah
ES17	Mohammed Hasan Abdullah P93368 PhD (Environmental Sciences)	Green laser irradiation effects on field performance of maize seed germination at different duration and intensity.	Dr. Marlia Mohd Hanafiah
ES18	Siti Amira 'Ainaa' Idris P94742 MSc (Environmental Sciences)	Assessment of Indoor Particulate Matter (Pm2.5) and Trace Metals.	Dr. Marlia Mohd Hanafiah
ES19	Afiqah Bahirah Binti Ayoub P94286 MSc (Environmental Sciences)	An Assessment of Gridded Temperature Datasets in Peninsular Malaysia.	Prof. Dr. Fredolin Tangang
ES20	Mary Angelina Jud P94167 MSc (Environmental Sciences)	Madden Jullian Oscillation Interaction With Surface Temperature and it's Effect Towards Surface Ozone Concentration in Johor, Malaysia.	Assoc. Prof. Dr. Liew Ju Neng

11th APRIL 2019, THURSDAY

SESSION 2 : CENTER FOR ADVANCED MATERIALS AND RENEWABLE RESOURCES – CHEMISTRY 2

Assessor : Assoc. Prof. Dr. Rizafizah Othaman
 : Assoc. Prof. Dr. Mohamad Azwani Shah Mat Lazim
 Venue : BSL123K
 Time : 2.00 pm – 4.30 pm

Code	Presenter/ Programme	Title of Presentation	Supervisor
CHEM12	Benjamin Neoh Di-Shen P93232 MSc (Chemistry)	Synthesis of Hydroxylated Polyisoprene-Graft-Polylactide Copolymers.	Dr. Farah Hannan Anuar
CHEM13	Norilyani Izzati Binti Hasanuddin P97658 MSc (Chemistry)	Influence of Magnesium Silicate Towards Mechanical Properties And Morphology of Poly (Lactic Acid)-Poly (Ethylene Glycol) Copolymer Membranes.	Dr. Farah Hannan Anuar
CHEM14	Nur Hanis Binti Zakaria P97344 MSc (Chemistry)	Molecular Docking Evaluation of 4-Aminoquinoline Antimalarial Hybrids Against Plasmodium Falciparum Lactate Dehydrogenase (PfLDH) Enzyme using Autodock Vina.	Dr. Nurul Izzaty Hassan
CHEM15	Syawal Bin Mohd Yusof P95757 MSc (Chemistry)	Co2 Capture on Fibrous Silica Loaded with Different Metal Oxides.	Dr. Teh Lee Peng
CHEM16	Noor Faeiza Binti Mohd Noor P96483 MSc (Chemistry)	Synthesis and Sorption Studies of Rubber-Based Hydrogel.	Assoc. Prof. Dr. Siti Fairus Mohd Yusoff
CHEM17	Roslinda Binti Mustapa P94457 MSc (Chemistry)	Synthesis and Characterization of Hydroxamic Acid Ligand.	Assoc. Prof. Dr. Siti Fairus Mohd Yusoff
CHEM18	Basirah Binti Abu Bakar P93739 MSc (Chemistry)	Synthesis of N, N'-Bis-5-(Bromosalicylidene)-Phenylene-Diamine-Zinc (II) Metal Complex and Interaction Study with Histamine.	Dr. Nurul Huda Abdul Karim
CHEM19	Nur Afiqah Binti Mustafa Kamal P93254 MSc (Chemistry)	Humidity effect on Mechanical Strength of Gelatin-Carboxymethyl Cellulose (Cmc) Microneedle.	Dr. Suria Ramli

11th APRIL 2019, THURSDAY

**SESSION 2 : CENTER FOR FRONTIER SCIENCES – NUCLEAR SCIENCE
 – ENERGY TECHNOLOGY**

Assessor : Assoc. Prof. Dr. Mohammad Hafizuddin Jumali

: Dr. Mohd Idzat Idris

Venue : BS1115F

Time : 2.00 pm – 4.30 pm

Code	Presenter/ Programme	Title of Presentation	Supervisor
NSC1	Azlina Mohammad Jais P48560 PhD (Nuclear Science)	A Study on the Development of an Independent Nuclear Regulatory Authority for Nuclear Energy Programme in Malaysia.	Assoc. Prof. Dr. Faizal K.P. Mohamed Assoc. Prof. Dr. Irman Abdul Rahman Prof. Dr. Shahidan Radiman
NSC2	Eli Syafiqah Aziman P93045 PhD (Nuclear Science)	Performance of Fabricated Activated Carbon Electrode (Face) for Remediation of Thorium (Iv) by Electrosorption Techniques.	Dr. Aznan Fazli Ismail
NSC3	Nur Syuhada Izzati Binti Ruzali P93152 PhD (Nuclear Science)	Physical Characterization of Glass Containing Oil Sludge for Immobilization of Naturally Occurring Radioactive Material (Norm).	Dr. Syazwani Mohd Fadzil
NSC4	Nur Ain Binti Mohd Radzali P94064 PhD (Nuclear Science)	Radiation Induced Grafting of (AA-co-NVCL) Onto ePTFE.	Dr. Norsyahidah Mohd Hidzir
NSC5	Nurrul Assyikeen Binti Md. Jaffary P87577 PhD (Nuclear Science)	Selective Thorium (Iv) Sorption by Phosphate-Functionalized Glycidyl Methacrylate (Gma) Gamma Irradiation Grafted Latex.	Assoc. Prof. Dr. Khoo Kok Siang
NSC6	Nahhar A N A Aikhaledi P81906 MSc (Nuclear Science)	A Study for the Possibility of the Thorium Adsorption by Natural Rubber using Gamma Spectrometry and Icp-Ms.	Assoc. Prof. Dr. Khoo Kok Siang
ET1	Rohaimi Bin Abdullah P96380 MSc (Energy Technology)	Dual Functional of Refrigeration System Using Eco-Friendly Refrigerant R410a Which Are Functioned Conditioning Room Air and Heating Water	Assoc. Prof. Dr. Zahari Ibarahim
ET2	Wan Nurlaila Yusra Mat Desa P94459 MSc (Energy Technology)	Weather and Temperature Profiling of Greenhouse Solar Dryer System	Dr. Ahmad Fudholi

11th APRIL 2019, THURSDAY

**SESSION 2 : CENTER FOR MODELLING AND DATA SCIENCE – MATHEMATICS 2
 – STATISTICS**

Assessor : Prof. Dr. Abd Ghafur Ahmad
 : Assoc. Prof. Dr. Saiful Hafizah Jaaman
 Venue : BS1114F
 Time : 2.00 pm – 4.30 pm

Code	Presenter/ Programme	Title of Presentation	Supervisor
MATH9	Asmaa Belal Mohammad Fadel P93153 PhD (Mathematics)	The Relation between Some Chaos Notions on Dendrite.	Dr. Syahida Che Dzul-Kifil
MATH10	Nur Fitri Azmeer Bin Nordin P94563 MSc (Mathematics)	Chaos in Countable State Markov Shifts.	Dr. Syahida Che Dzul-Kifil Prof. Dr. Mohd Salmi Md Noorani
MATH11	Liyana Chew Binti Nizam Chew P86054 MSc (Mathematics)	Enhancement of S-Box Construction Based on Linear Fractional Transformation and Permutation Function.	Assoc. Prof. Dr. Eddie Shahril Ismail
MATH12	Isma Norshahila Binti Mohammad Shah P86055 MSc (Mathematics)	The Development of Lightweight Block Cipher Based on Present-80 Algorithm for Internet of Things.	Assoc. Prof. Dr. Eddie Shahril Ismail
MATH13	Izzmier Izzuddin Bin Zulkepli P89224 MSc (Mathematics)	Key Authentication Scheme Based on Elliptic Curve.	Assoc. Prof. Dr. Eddie Shahril Ismail
STAT1	Iszuanie Syafidza Che Ilias P63173 MSc (Statistics)	A Simple Scaling Characteristics for Short Duration Extreme Rainfall Data.	Assoc. Prof. Dr. Wan Zawiah Wan Zin
STAT2	Nurul Hanis Aminuddin Jafry P87578 MSc (Statistics)	Copula Models for High-Frequency Data.	Prof. Dr. Noriszura Ismail
STAT3	Yousif Hamood Alyousifi P90499 MSc (Statistics)	Markov Chain Modeling of Air Pollution Index Based on Maximam a Posteriori Method.	Prof. Dr. Kamarulzaman Ibrahim

CLOSING CEREMONY AND HI-TEA

THE 19th POSTGRADUATE COLLOQUIUM FACULTY OF SCIENCE AND TECHNOLOGY

12th April 2019 (Friday)
Anggerik Hall, Bangi Golf Resort
Bandar Baru Bangi

Tentative Programme

- 02.30 pm : Registration of Presenters and Participants
- 02.45 pm : Arrival of Guests
- 03.00 pm : Recital of Doa
- 03.15 pm : Appreciation Speech
YBhg. Prof. Dr. Mohammad Kassim
Dean, Faculty of Science and Technology
- 03.30 pm : Hi-Tea
- 04.30 pm : Presentation of Souvenirs
- 05.00 pm : End of Ceremony