

**Research Grants 2014-2017**  
**Faculty of Environmental Studies**

No.	Research Title	Project Leader	Duration	Source
1	Longitudinal Assessment of River Health Using Index of Biotic Integrity (IBIO and Ighthyological Index (I.I))	Rohasliney Hashim	2014 - 2016	Geran Putra-Inisiatif Putra Muda
2	Analysis of Heavy Metal Concentrations in Edible Native Fish Species from Galas Catchment Area in Kelantan, Malaysia	Mohd Yusoff Ishak	2014 - 2016	Geran Putra-Inisiatif Putra Muda
3	Isolation and Characterization of Petroleum Degrading Microorganisms from Antarctic Contaminated Soils	Wan Lutfi Wan Johari	2014 - 2016	Geran Putra-Inisiatif Putra Muda
4	Modelling an Environmental Life Cycle Costing (ELCC) of poultry industry towards sustainable food security in Malaysia	Amir Hamzah Sharaai	2014 - 2016	FRGS
5	Drought-risk assessment and Monitoring in Malaysia Using Remote Sensing and GIS Technique	Zulfa Hannan Asha'ari	2014 - 2016	FRGS
6	The Use of Manganese Dioxide (MnO <sub>2</sub> ) and Limestone (Calcite and Dolomite) in the Removal of Manganese from Acid Mine Drainage (AMD)	Faradiella Mohd Kusin	2014 - 2016	Geran Putra-Inisiatif Putra Siswazah
7	Identifying Environmental Hotspots on Rice Commodity System by Using Life Cycle Assessment (LCA) and Environmental Life Cycle Costing (ELCC) to Ensure Sustainable Malaysian Food Security	Amir Hamzah Sharaai	2014 - 2016	Geran Putra-Inisiatif Putra Siswazah
8	Incorporating Bacterial Sulphate Reduction (BSR) and Carbon Additives in an Anoxic Bioreactor for Remediation of Acid Mine Drainage (AMD)	Faradiella Mohd Kusin	2014 - 2016	Geran Putra-Inisiatif Putra Muda
9	Study the Effectiveness of Environmental Awareness Ecosystem Discovery Journey (EDJ) Module	Sabrina Ho Abdullah	2014 - 2016	Geran Putra-Inisiatif Putra Muda
10	Removal of Toxic Iron (Fe) Ion by Spent Coffee Grounds	Khairul Nizam Mohamed	2014 - 2016	Geran Putra-Inisiatif Putra Muda
11	The Development of Decision Support System for Urban Air Quality Management in Malaysia Through the Application of GIS and Space Borne Remote Sensing Observation	Zulfa Hannan Asha'ari	2014-2017	Geran Putra-Inisiatif Putra Muda
12	Sustainable Wastewater Management in Quail Production by Analyzing the Flow of Nitrogen (N) and Phosphorus (P) Using Material Flow Analysis	Amir Hamzah Sharaai	2014 - 2016	Geran Putra-Inisiatif Putra Muda
13	Developing Urban Environmental Happiness Indicator Towards Urban Sustainable Development in Malaysia : Delphi Approach	Mohd Rusli Yacob	2014 - 2016	Geran Putra-Inisiatif Putra Siswazah
14	Passive Treatment of Acid Mine Drainage (AMD) Using Sulphate-Reducing Bioreactor'	Faradiella Mohd Kusin	2014 - 2016	Geran Putra-Inisiatif Putra Siswazah
15	Effect of Seasonal Northeast Monsoon on Phytoplankton Bloom at Pulau Perhentian, Terengganu: In Case of Iron Bioavailability	Khairul Nizam Mohamed	2014-2017	FRGS
16	Program Pemulihan Kualiti Air dan Ekosistem Bakau di Kong-Kong Laut, Masai , Johor	Faradiella Mohd Kusin	2014-2017	Knowledge Transfer Grant
17	Local Community-based Participation for Conservation of River Terrapin in Perak River, Malaysia (Sub Projek Integrated Assessment of Endangered River Terrapin in Perak River, Malaysia)	Latifah Abd Manaf	2015- 2017	Geran Putra - Inisiatif Putra Berkumpulan
18	A Geospatial Database and Physical Habit Predictive Model for River Terrapin Population in Peak River, Malaysia (Sub projek Integrated Assessment of Endangered River Terrapin in Perak River, Malaysia )	Nor Rohaizah Jamil	2015- 2017	Geran Putra - Inisiatif Putra Berkumpulan (Sub Pojek)
19	Analysis of Urban Sprawl and Its Impacts on Green Space Using Entropy Approach and NDVI Index in the City of Seremban, Malaysia	Sabrina Ho Abdullah	2015- 2017	Geran Putra-Inisiatif Putra Siswazah
20	Comprehensive Evaluation on Dielectric Characterization of Soil and Soil Moisture in the Wideband Microwave Frequencies	Mohammad Faiz Zainuddin	2015- 2017	Geran Putra-Inisiatif Putra Muda
21	Assessment of Stakeholders Readiness in Implementing Greywater Reuse for Agriculture in Malaysia	Mariani Ariffin	2015-2018	Geran Putra-Inisiatif Putra Siswazah
22	The Evaluation of Environmental and Social Impacts in Malaysia Food Industry by Using Life Cycle Approaches	Amir Hamzah Sharaai	2015-2016	Geran Putra-Inisiatif Putra Siswazah
23	Resilience, Vulnerability And Adaptive Capacity Assessment Of East Coast Communities In Malaysia To Flood	Ahmad Makmom Abdullah	2015-2016	FRGS - Banjir
24	Modeling the effect of land use/cover changes in flood source areas on downstream flood peak of Kelantan River Basin	Wan Nor Azmin Sulaiman	2015-2016	FRGS - Banjir

25	Economic Analysis of Forest Ecosystem Services And Land Use Practices To Strengthen The Flood Mitigation Strategies In The Kelantan River Basin	Mohd Rusli Yacob	2015-2016	FRGS - Banjir
26	Community Flood Preparedness for Building Climate Resilience	Zelina Zaiton Ibrahim	2015-2016	FRGS - Banjir
27	Risk Assessment of Selected Estrogenic Contaminants in Malaysian Riverine and Estuarine Ecosystem: Case Study of Langat and Klang River Basin	Ahmad Zaharin Aris	2015-2017	Geran Putra-Inisiatif Putra Siswazah
28	Development and Implementation of Pilot Floating Vetiver Island (FVI) for Bioremediation of Polluted Urban Water Resources	Zelina Zaiton Ibrahim	2015-2017	Geran Putra-Inisiatif Putra Siswazah
29	Performance of Permeable Reactive Barrier (PRB) for Passive Remediation of Contaminants Associated with Bauxite Mining	Faradiella Mohd Kusin	2015-2017	Geran Putra-Inisiatif Putra Siswazah
30	Removal of Endocrine Disrupting Compounds (EDCs) from Aqueous Solution using Marine Carbonate Residues to be Applied in Water Supply Treatment Facilities	Ahmad Zaharin Aris	2015-2017	FRGS
31	Malaysian Household Source Separation and Recycling Behavior Based on Extended Theory of Planned Behavior with Integration of Geographic Information System (GIS)	Latifah Abd Manaf	2015-2018	FRGS
32	Evaluation of Lethal Concentration (LC) of Mine Discharges on the Ikan Loma ( <i>Thynnichthys thynnoides</i> ) of Sungai Perak, based on Whole Effluent Toxicity Testing Approach	Mohd Yusoff Ishak	2015-2017	FRGS
33	Development of a Legal GIS-Based Database Prototype for Flood Risk Management in Malaysia	Zelina Zaiton Ibrahim	2015-2017	FRGS
34	Remedial Strategies and Carbon Capture Potential of Mining Waste : Passive Sequestration of Atmospheric Carbon from Bauxite Residue (Red Mud) Deposits	Faradiella Mohd Kusin	2015-2017	FRGS
35	The Study on Dengue Risk Factors Based on Sociological Environmental Factors by Using Geographical Information System at High Risk Areas in Selangor	Mohammad Firuz Ramli	2015-2017	Geran Putra-Inisiatif Putra Siswazah
36	Assessment of Corrosion Effect on Metals from Traffic Induced Airborne Particulate by Loss Method for Improvement of Metal Protection	Ahmad Makmom Abdullah	2015-2017	Geran Putra-Inisiatif Putra Siswazah
37	Application of Geophysical, Hydrogeochemical and Geographical Information System in Determining the Effectiveness of Riverbank Filtration for Quantitative and Qualitative Drinking Water Production in Banting, Talok Datok Selangor	Mohammad Firuz Ramli	2015-2017	Geran Putra-Inisiatif Putra Siswazah
38	Environmental Pollution Assessment in Established (Sungai Ayam Batu Pahat, Johor) and Proposed Cultivation Area (Kong Kong Laut Masai, Johor) for Evaluation the Potetial Bioaccumulation Ability in Blood Cockle ( <i>Anadara granosa</i> )	Ferdaus Mohamat Yusuff	2015-2017	Geran Putra-Inisiatif Putra Siswazah
39	Evaluation of Malaysian Household behaviour and the role of local authorities and private concessionaire in source separation and recycling programme	Latifah Abd Manaf	2015-2017	Geran Putra-Inisiatif Putra Siswazah
40	Heavy Metal Concentration in Fish Tissue from Galas River, Kelantan	Mohd Yusoff Ishak	2015-2017	Geran Putra-Inisiatif Putra Siswazah
41	Application of Multiple In-Vitro Cell Bioassays Utilizing PLHC-1 for Biological Risk Assessment in Malaysia Marine Environment	Narayanan Kanan	2015-2017	Geran Putra-Inisiatif Putra Siswazah
42	Physical and Chemical Factors that Promotes or Inhibit the Growth of Blood Cockle <i>Anadara Granosa</i> in Proposed Cultivation Area	Ferdaus Mohamat Yusuff	2016-2018	Geran Putra-Inisiatif Putra Siswazah
43	The Assessment of the Challenges of ISO14001 Post Certification for Malaysia's Manufacturing Industry	Mariani Ariffin	2016-2018	Geran Putra-Inisiatif Putra Siswazah
44	Enhancement of Sediment Trap Efficiency With Added Biofloculant at Laboratory Scale	Zufarzaana Zulkeflee	2016-2018	Geran Putra-Inisiatif Putra Muda
45	Impact of Historical Land Cover Conversion by Oil Palm Plantation on Greenhouse Gas Emissions in Poeninsular Malaysia : A Geospatial Technology Approach	Zulfa Hannan Asha'ari	2016-2018	Geran Putra-Inisiatif Putra Siswazah

46	Identification of Trace-Level Active Pharmaceutical Ingredients (APIs) in Drinking Water System of Greater Kuala Lumpur and Klang Valley, Malaysia (Research Program Title :Developing Holistic Approach for Policy and Risk Management of Pharmaceutical Pollutants in Drinking Water)	Ahmad Zaharin Aris	2016-2019	TRGS
47	Integrating Risk Mitigation to Malaysian Regulations for Pharmaceutical-Safe Drinking Water (Research Program Title :Developing Holistic Approach for Policy and Risk Management of Pharmaceutical Pollutants in Drinking Water)	Mariani Ariffin	2016-2019	TRGS
48	Modelling Drinking Water Distribution System (DWDS) Vulnerability to Active Pharmaceutical Ingredients (APIs) by integration of geospatial-hydraulic and water quality model (Research Program Title :Developing Holistic Approach for Policy and Risk Management of Pharmaceutical Pollutants in Drinking Water)	Zulfa Hannan Asha'ari	2016-2019	TRGS