

No.	Grant Scheme	Project Title	Project Leader	Co Researcher	Research Area	Year Received	Start Date (as per Agreement)	Duration (months)	Completion Date	Total Approved (RM)	Funding Sources	Laboratory
1	FRGS	Multiple Outliers in STAR Model and Properties of the FISSAR Model	Mahendran Shitan	1. Prof. Dr. A.H.M Rahmatullah Imon 2. K. Murugason	Pure and Applied Sciences	2006	01-Mac-07	24 bulan	28-Feb-09	60,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Statistics & Operations Research
2	FRGS	Developing a Code for Solving a Higher Order Ordinary Differential Equations (HODEs) Directly Using Implicit Block Methods	Zarina Bibi Ibrahim	1. Prof. Dato' Dr. Mohamed Suleiman 2. Dr. Zanariah Abdul Majid 3. Dr. Khairil Iskandar Othman	Pure and Applied Sciences	2006	01-Mac-07	30 bulan	30-Ogos-09	53,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics
3	FRGS	Solving Boundary Value Problems By Multiple Shooting Using The Multistep Method In Its Backward Difference Formulations	Mohamed Bin Suleiman	1. Dr.. Zarina Bibi Ibrahim 2. Dr. Zanariah Abdul Majid 3. Dr. Khairil Iskandar Othman	Pure and Applied Sciences	2006	01-Mac-07	30 bulan	31-Ogos-09	50,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics
4	FRGS	Detection of Multiple Influential Observations In Censored Survival Models	Noor Akma Ibrahim	1. PM Dr. Isa Daud 2. Abdul Kudus	Pure and Applied Sciences	2006	01-Mac-07	24 bulan	28-Feb-09	63,372.55	Ministry of Higher Education (MOHE)	Laboratory of Computational Statistics & Operations Research
5	FRGS	Public Key Infrastructure And Chaos Based Cryptography	Muhammad Rezal B. Kamel Ariffin	1. PM Dr. Mohd. Rushdan Md. Said 2. Prof. Dato' Dr. Kamel Ariffin Mohd. Atan 3. Faridah Yunos	Pure and Applied Sciences	2006	01-Mac-07	24 bulan	28-Feb-09	70,082.59	Ministry of Higher Education (MOHE)	Laboratory of Cryptography, Analysis and Structure
6	FRGS	Robust Logistic Regression Estimation In The Presence Of Outliers	Habshah Bt. Midi	1. Prof. Dr. A.H.M Rahmatullah Imon 2. Syaiba Balqish Ariffin@Mat Zin	Pure and Applied Sciences	2006	01-Mac-07	24 bulan	28-Feb-09	48,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Statistics & Operations Research
7	FRGS	An Application of Lucas Function In the Cramer-Shoup Cryptosystem	Muohamad Rushdan Bin Md. Said	1. PM Dr. Bekbaev Ural 2. Dr. Zuriati Ahmad Zulkarnain 3. Norliana Muslim	Pure and Applied Sciences	2006	01-Mac-07	24 bulan	28-Feb-09	51,000.00	Ministry of Higher Education (MOHE)	Laboratory of Cryptography, Analysis and Structure
8	FRGS	Higher Order Embedded Runge-Kutta Methods For Solving Ordinary And Delay Differential Equations	Fudziah Binti Ismail	Suriah Md. Amin	Pure and Applied Sciences	2006	01-Mac-07	24 bulan	28-Feb-09	68,591.47	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics
9	FRGS	Generalized Lindelofness and Regular-Lindelofness in Bitopological Spaces	Kamel Ariffin Mohd Atan	1.Prof.Dr.Adem Kilicman 2.Zabidin Salleh 3.Hassan Eltayeb Gadain	Pure and Applied Sciences	2006	01-Mac-07	30 bulan	31-Ogos-09	76,500.00	Ministry of Higher Education (MOHE)	Laboratory of Cryptography, Analysis and Structure
10	FRGS	Electromagnetic Properties Of Nanocomposites At Microwave Frequencies	Zulkifly Abbas	1. Mohd. Ashry Yusof 2. Lee Kim Yee	Pure and Applied Sciences	2006	01-Mac-07	24 bulan	28-Feb-09	72,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics
11	FRGS	Problem-Based Learning for Mathematics for Malaysian Upper Secondary Students	Rohani Ahmad Tarmizi	Nur Izzati Lojinin Abdullah	Literature and the Arts Professional	2006	01-Mac-07	17 bulan	31-Jul-08	60,000.00	Ministry of Higher Education (MOHE)	Laboratory of Ethnomathematics and Didactics

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12	FRGS	Geometry of Qutrīts	Hishamuddin Zainuddin	1. Mazlinda Zainy 2. Nurisya Mohd Shah 3. Roslina Abd. Rashid 4. Mohd. Ali Mat Nong	Pure and Applied Sciences	2006	01-Mac-07	28 bulan	30-Jun-09	61,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics
13	FRGS	Metacognitive Aspects Of Mathematical Problem Solving	Aida Suraya Hj. Md. Yunus	1. PM Dr. Wan Zah Wan Ali 2. Dr. Habsah Ismail	Literature and the Arts Professional	2006	01-Mac-07	14 bulan	30-Apr-08	30,000.00	Ministry of Higher Education (MOHE)	Laboratory of Ethnomathematics and Didactics
14	FRGS	Pendokumentasian Bahan Etnomatematik	Mat Rofa Ismail	1.Prof.Dr.Shaharir Mohd.Zain 2.PM Dr.Rohani Ahmad Tarmizi 3.PM Dr.Wan Zah Wan Ali 4.Dr.Muhamad Alinor Abdul Kadir 5.En Baharudin Zainal 6.En.Mohd.Rohaizat Abdul Wahab 7.PM Mohamad Zain Musa 8.Dr. Mohd Syukri Yeoh Abdullah	Natural Sciences and National Heritages	2007	01-Nov-07	36 bulan	31-Okt-10	80,000.00	Ministry of Higher Education (MOHE)	Laboratory of Ethnomathematics and Didactics
15	FRGS	Optimized Crossover Genetic Algorithms for Combinatorial Optimization Problems	Lee Lai Soon	1.PM Dr. Habshah Midi 2.Noor Hasnah Moin 3.Mohd bin Omar	Applied Science	2007	01-Nov-07	36 bulan	31-Okt-10	79,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Statistics & Operations Research
16	FRGS	a New Efficient and Fast Paralled Modified Explicit Group Iterative Algorithm for Solving Stationary Problem on Distributed Parallel Computer Architecture	Mohamed Othman	1.Prof. Dato' Dr. Mohamed Suleiman 2.Cik Noraini bt Md Nusi	Applied Science	2007	01-Nov-07	30 bulan	30-Apr-10	54,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics
17	FRGS	Superlinearly Convergent Symmetric Rank-one Method for Unconstrained Optimization	Leong Wah June	1.Prof.Dr.Malik Abu Hassan 2.Norffiah Bachok@Lati	Pure Sciences	2007	01-Nov-07	24 bulan	31-Okt-09	60,200.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Statistics & Operations Research
18	FRGS	Globalization of Barzilai-borwein Method for Unconstrained Large-scale Optimization	Malik Abu Hassan	1.Dr. Mansur Mansi 2.Dr.Leong Wah June	Pure Sciences	2007	01-Nov-07	24 bulan	31-Okt-09	60,200.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Statistics & Operations Research
19	FRGS	Diagonally Implicit Runge-Kutta-Nystrom Methods With Maximized Stability Domain for Solving Structural Dynamics Problems	Norffiah Bachok@Lati	1.Prof.Dato'Dr. Mohamed Suleiman 2.PM Dr.Fudziah Ismail 3.Dr.Norrazak Senu	Pure Sciences	2007	01-Nov-07	30 bulan	30-Apr-10	60,200.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics
20	FRGS	Estimation of Multiple Exponential Sums	Siti Hasana Sapar	1.Prof.Dato'Dr. Kamel Ariffin Mohd.Atan 2.PM Dr.Mohamad Rushdan Md.Said	Pure Sciences	2007	01-Nov-07	24 bulan	31-Okt-09	60,200.00	Ministry of Higher Education (MOHE)	Laboratory of Cryptography, Analysis and Structure
21	FRGS	Algebraic and Geometric Properties of Some Class of Finite Dimensional Non Associative Algebras	Isamiddin S. Rakhimov	1.PM Dr.Bekbaev U.D 2.Sharifah Kartini Said Husain 3.Wiriany Basri	Pure Sciences	2007	01-Feb-08	24 bulan	31-Jan-10	45,000.00	Ministry of Higher Education (MOHE)	Laboratory of Cryptography, Analysis and Structure

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22	FRGS	A Bivariate Survival Model of the Paired Organ System with Repeated Dependent Failures and Multiple Covariates	Jayanthi a/p Arasan	1.PM Dr. Habshah Midi 2.PM Dr. Isa Daud 3.PM Dr. Noor Akma Ibrahim	Pure Sciences	2007	01-Feb-08	24 bulan	31-Jan-10	45,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Statistics & Operations Research
23	FRGS	Robust and Nonparametric Inference in Heteroscedastic Regression	Habshah Midi	Dr. Mohd. Bakri Adam	Applied Science	2008	01-Jan-09	24 bulan	31-Dis-10	96,600.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Statistics & Operations Research
24	FRGS	Modelling of Malaysia's Election Votes with Extreme Value Theory	Mohd Bakri Adam	1.Prof. Madya Dr. Hjh. Noor Akma Ibrahim 2.Prof. Madya Dr. Habshah Midi	Social Sciences & Humanities	2008	01-Jan-09	24 bulan	31-Dis-10	60,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Statistics & Operations Research
25	FRGS	Two Dimensional Multiple Curved Crack Problems	Nik Mohd. Asri Nik Long	Dr. Zainidin Eshkuvvatov	Pure Sciences	2008	01-Jan-09	24 bulan	31-Dis-10	63,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics
26	FRGS	Analisis Kritikal Pemikiran Matematik Shaykh Ahmad al-Khatib al-Minangkabawi dengan Pemikiran Matematik Moden (Kitabnya: 'Alam al-Hussab fi 'Ilm al-Hisab)	Habsah Ismail	1.Dr. Adi Setia Mohd Dom 2.Dr. Mat Rofa Ismail 3.Prof. Madya Dr. Rohani Ahmad Tarmzi 4.Dr. Aminuddin Hassan 5.Prof. Madya Dr. Wan Zah Wan Ali	Pure Sciences	2008	01-Jan-09	30	30-Jun-11	96,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Statistics & Operations Research
27	FRGS	Fluid Flow along a Cylinder by a Uniformly Travelling Magnetic Field	Nik Mohd. Asri Nik Long	1)Mohd. Noor bin Saad 2)Prof. Alfred Sneyd	Technology & Engineering	2008	01-Jan-09	30	30-Jun-11	57,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics
28	FRGS	Analisis Manuskrip Sains Bermatematik Funan Kurun Ke-6 Masihi	Rohani Ahmad Tarmizi	1) Prof. Madya Dr. Mat Rofa Ismail 2) Prof. Madya Dr. Mohamad Zain Bin Musa 3) Dr. Mohammad Alinor Bin Abdul Kadir 4) Dr. Shaharir Bin Mohd Zain	Natural Sci & National Heritage	2009	1-Sep-09	24	1-Sep-11	40,000.00	Ministry of Higher Education (MOHE)	Laboratory of Ethnomathematics and Didactics
29	FRGS	Developing A Code For Solving Delay Differential Equations (DDEs) Using Multistep Block Methods	Zarina Bibi Ibrahim	1) Pror. Dato' Dr. Mohamed Suleiman 2) Prof. Madya Dr. Fudziah Ismail 3) Dr. Khairil Iskandar Othman	Applied Science	2009	1-Sep-09	24	1-Sep-11	32,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics
30	FRGS	Repairable System Model For Interval Censored, Grouped And Truncated Data With Time Varying Covariates	Jayanthi a/p Arasan	1) Prof. Madya Dr. Habshah Midi 2) Prof. Madya Dr. Noor Akma Ibrahim 3) Prof. Madya Dr. Isa Daud	Applied Science	2009	1-Sep-09	24	1-Sep-11	32,500.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Statistics & Operations Research
31	FRGS	Developing And Implementation Of The Direct Variable Block Method For The Solution Of The Solution Of Higher Order ODEs	Zanariah Abdul Majid	1) Pror. Dato' Dr. Mohamed Suleiman 2) Dr. Zarina Bibi Ibrahim	Applied Science	2009	1-Sep-09	24	1-Sep-11	33,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics

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32	FRGS	Two-step Hybrid Methods For Solving Special Second Order Ordinary Differential Equations	Fudziah Binti Ismail	1) En. Norazak Senu	Pure Sciences	2009	12-Nov-09	24	12-Nov-11	32,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics
33	FRGS	Improved Hessian Approximation For Quasi-Newton Methods Via Higher Order Conic	Leong Wah June	1) Prof. Dr. Malik Haji Abu Hassan 2) Mansor Monsi	Pure Sciences	2009	12-Nov-09	24	12-Nov-11	34,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Statistics & Operations Research
34	FRGS	A New Integral Transform and Sytem of Differential Equations	Adem Kilicman	1) Hassan Eltayeb 2) Idham Alias	Pure Sciences	2009	12-Nov-09	24	12-Nov-11	29,000.00	Ministry of Higher Education (MOHE)	Laboratory of Cryptography, Analysis and Structure
35	FRGS	Convective Instability Of A Fluid Layer Induced By Surface Tension And Buoyancy	Norihan Mohd Ariffin	1) Fadzilah Md. Ali 2) Norfifah Bachok	Pure Sciences	2009	12-Nov-09	24	12-Nov-11	35,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics
36	FRGS	Properties Of Generalized Autoregressive Moving Average (GARMA) Model And Applications	Mahendran Shitan	1) Thulasyammal a/p Ramiah Pillai 2) Chan Mew Leng	Pure Sciences	2009	12-Nov-09	24	12-Nov-11	25,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Statistics & Operations Research
37	FRGS	Credibility Models with Three-level Common Effects of Claim Dependence	Noor Akma bt Ibrahim	1) Adem Kilicman	Pure Sciences	2009	12-Nov-09	24	12-Nov-11	34,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Statistics & Operations Research
38	FRGS	A Public Key Cryptosystem Using Iterated Function System (IFS) Fractals Theory	Mohamad Rushdan Md Said	1) Nadia Mohammed G. Al-Saidi 2) En. Muhammad Rezal Kamel Ariffin	Pure Sciences	2009	12-Nov-09	24	12-Nov-11	31,000.00	Ministry of Higher Education (MOHE)	Laboratory of Cryptography, Analysis and Structure
39	FRGS	Theoretical Development of Mix-Multistep Method for the Solution of Differential Algebraic Equations	Mohamed Bin Suleiman	1) Yong Faezah Rahim 2) Zarina Bibi Ibrahim	Pure Sciences	2009	12-Nov-09	24	12-Nov-11	35,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics
40	FRGS	A New Approach of Free-table Routing for CHRm6 Networks	Mohamed Othman	1) Prof. Madya Dr. Hj. Mohd. Hasan Selamat 2) Puan Raja Noor Farah Azura bt Raja Maamor Shah	Pure Sciences	2009	12-Nov-09	24	12-Nov-11	35,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics
41	FRGS	Impact Of Pedagogical, Psycho-Social And Cultural Perspective On Mathematics Achievement: A Comparative Study On Malaysia And Singapore Learners	Wan Zah Wan Ali	1) Prof. Madya Dr. Rohani Ahmad Tarmzi	Social Sciences & Humanities	2009	12-Nov-09	30	31-May-12	38,000.00	Ministry of Higher Education (MOHE)	Laboratory of Ethnomathematics and Didactics
42	FRGS	Ant Colony Optimisation for Combinatorial Optimisation Problems	Lee Lai Soon	1) Dr. Zanariah Abdul Majid 2) Seow Hsin Vonn	Pure Sciences	2010	19-Apr-10	24	18-Apr-12	53,200.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Statistics & Operations Research

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43	FRGS	Quantum Chaos Theory in Terms of Causal Interpretation of Bohmian Quantum Mechanics	Hishamuddin Zainuddin	1) Saeid Molladavoudi	Pure Sciences	2010	19-Apr-10	24	18-Apr-12	52,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics
44	FRGS	Development of Variable Order Blok Multistep Method for Solving Ordinary Differential Equations (ODEs)	Zarina Bibi Ibrahim	1) Prof. Dato' Dr. Mohamed Suleiman 2) Dr. Khairil Iskandar Othman	Pure Sciences	2010	19-Apr-10	24	18-Apr-12	49,600.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics
45	FRGS	Robust Estimation and Outlier Detection in Response Surface Methodology	Habshah Midi	1) Dr. Norazan Mohamed Ramli	Pure Sciences	2010	19-Apr-10	24	18-Apr-12	48,800.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Statistics & Operations Research
46	FRGS	Modeling and Analysis of Survival Data Models with a Cure Fraction	Mohd Rizam bin Abu Bakar	1) Prof. Madya Dr. Hjh. Noor Akma Ibrahim	Pure Sciences	2010	19-Apr-10	24	18-Apr-12	48,800.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Statistics & Operations Research
47	FRGS	Convective Boundary Layer Flow of a Nanofluid	Norihan Md. Arifin	1) Prof. Madya Dr. Fudziah Ismail 2) Fadzilah Md. Ali 3) Pn. Norfifah Bachok@Lati	Pure Sciences	2010	19-Apr-10	24	18-Apr-12	45,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics
48	FRGS	Estimation of Default Probability Using Survival Analysis	Noor Akma Ibrahim	1) Dr. Jay 2) Abdul Kudus	Pure Sciences	2010	19-Apr-10	24	18-Apr-12	44,800.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Statistics & Operations Research
49	FRGS	An Integral Solution of Diophantine Equation	Siti Hasana Sapar	1) Prof. Dato' Dr. Hj. Kamel Ariffin Mohd. Atan	Pure Sciences	2010	19-Apr-10	24	18-Apr-12	43,680.00	Ministry of Higher Education (MOHE)	Laboratory of Cryptography, Analysis and Structure
50	FRGS	Discretization of Chaotic Dynamical Map for Cryptographic Implementation	Muhammad Rezal bin Dato' Dr. Kamel Ariffin	1) Prof. Madya Dr. Mohamad Rushdan Md. Said 2) Aniza Abdul Ghani 3) Nor Azman Abu	Pure Sciences	2010	19-Apr-10	24	18-Apr-12	41,600.00	Ministry of Higher Education (MOHE)	Laboratory of Cryptography, Analysis and Structure
51	FRGS	On Classification of Complex Filiform Leibniz Algebras in Dimensions 9 until 11	Sharifah Kartini binti Said Husain	1) Prof. Madya Dr. Isamiddin S. Rakhimov 2) Dr. Siti Hasana Sapar	Pure Sciences	2010	19-Apr-10	24	18-Apr-12	40,640.00	Ministry of Higher Education (MOHE)	Laboratory of Cryptography, Analysis and Structure
52	FRGS	Recurrence Relations & Cryptography	Azmi bin Jaafar	1) Prof. Madya Dr. Mohamad Rushdan Md. Said	Technology and Engineering	2010	19-Apr-10	24	18-Apr-12	40,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Statistics & Operations Research

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53	FRGS	Multiple Curved Cracks Problems in Antiplane Elasticity	Nik Mohd. Asri Nik Long	1) Dr. Zainidin K. Eshkuvatov	Pure Sciences	2010	19-Apr-10	24	18-Apr-12	40,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics
54	FRGS	Pendokumentasian Manuskrip Sains Matematik Melayu-Campa	Mat Rofa Ismail	1) Prof. Madya Dr. Rohani Ahmad Tarmizi 2) Prof. Madya Mohamad Zain bin Musa 3) Dr. Mohammad Alinor bin Abdul Kadir	Natural Sciences and National Heritage	2010	19-Apr-10	24	18-Apr-12	37,500.00	Ministry of Higher Education (MOHE)	Laboratory of Ethnomathematics and Didactics
55	FRGS	Mathematical Model to Study the Transmission Dynamics and Impact of Interventions of Hand, Foot and Mouth Disease in Malaysia	Ishttrinayagy S. Krishnarajah	1) Professor Dato' Dr. Lye Munn Sann 2) Prof. Madya Dr. Hjh. Noor Akma Ibrahim 3) Pn. Syarifah Nasrisya Syed Nor Azlan	Pure Sciences	2010	19-Apr-10	36	18-Apr-13	36,800.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics
56	FRGS	Embedded Diagonally Implicit Runge-Kutta Nystrom Methods for Oscillatory Problems	Norazak Senu	1) Prof. Dato' Dr. Mohamed Suleiman 2) Prof. Madya Dr. Fudziah Ismail 3) Pn. Norfifah Bachok@Lati	Pure Sciences	2010	1-Oct-10	30	31-Mar-13	52,800.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics
57	FRGS	A Study of String Cosmological Models with Time Decaying Vacuum Energy Density Λ and Related Problems	Hishamuddin Zainuddin	1) Hassan Amirhashci 2) Anirudh Pradhan	Pure Sciences	2010	1-Oct-10	24	30-Sep-12	38,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics
58	FRGS	Isomorphism Classes and Invariants of Low Dimensional Complex Filiform Leibniz Algebras	Isamiddin S. Rakhimov	1) Prof. Dato' Dr. Hj. Kamel Ariffin Mohd. Atan 2) Prof. Madya Dr. Mohamad Rushdan Md. Said 3) Pn. Sharifah Kartini binti Said Husain 4) Pn. Witriany Basri 5) Munther A.Hassan	Pure Sciences	2011	1-Mar-11	24	28-Feb-13	60,000.00	Ministry of Higher Education (MOHE)	Laboratory of Cryptography, Analysis and Structure
59	FRGS	Structural Properties of Some Classes of Dialgebras Over Complex Numbers	Witriany Basri	1) Prof. Madya Dr. Mohamad Rushdan Md. Said 2) Prof. Madya Dr. Isamiddin S. Rakhimov 3) Dr. Ikrom Mirzarustamovich Rikhsiboev	Pure Sciences	2011	1-Mar-11	24	28-Feb-13	58,000.00	Ministry of Higher Education (MOHE)	Laboratory of Cryptography, Analysis and Structure
60	FRGS	Modern Approximation Methods for Solving Singular Integral Equations of the Second and Third Kind	Zainidin K. Eshkuvatov	1) Prof. Madya Dr. Nik Mohd. Asri Nik Long 2) Prof. Madya Dr. Fudziah Ismail 3) Dr. Anvarjon Ahmedov	Pure Sciences	2011	1-Mar-11	24	28-Feb-13	38,200.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics
61	FRGS	Generalised BDF (GBDF) Method for the Solution of ODEs	Mohamed Suleiman	1) Dr. Norazak Senu 2) Khairil Iskandar Othman 3) Dr. Zarina Bibi Ibrahim 4) Fuziyah Ishak 5) Prof. Madya Dr. Zanariah Abdul Majid	Applied Science	2011	1-Mar-11	24	28-Feb-13	71,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics
62	FRGS	Developing and Implementation of Direct Method for Solving Linear Two Point Boundary Value Problem	Zanariah Abdul Majid	1) Prof. Dato' Dr. Mohamed Suleiman 2) Prof. Madya Dr. Fudziah Ismail	Applied Science	2011	1-Mar-11	24	28-Feb-13	57,800.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics

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63	FRGS	Design of Adaptive Learning to Optimize Instructional Efficiency in Mathematics Learning	Rohani Ahmad Tarmizi	1) Dr. Ahmad Fauzi Mohd Ayub 2) Prof. Madya Dr. Wan Zah Wan Ali 3) Dr. Mokhtar bin Dato' Haji Nawawi	Literature and the Arts Professional	2011	1-Aug-11	36	31-Jul-14	50,000.00	Ministry of Higher Education (MOHE)	Laboratory of Ethnomathematics and Didactics
64	FRGS	Flux Modeling of Optical Properties of Leaves and Fruits	Zulkifly Abbas	1) Mohd Amiruddin bin Abd Rahman	Applied Science	2011	1-Aug-11	36	31-Jul-14	120,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics
65	FRGS	Accelerated Rung-Kutta Method for Solving Second Order Fuzzy Differential Equations	Mohamed Suleiman	1) Prof. Madya Dr. Fudziah Ismail 2) SeyedAli AhmadianHossieni	Applied Science	2012	1-May-12	24	1-May-14	146,600.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics
66	FRGS	Analysis of Antennas by WE-FDTD Method Using a Fast and New Efficient Block Iterative Algorithm on Distributed Parallel Computer	Mohamed Othman	1) Noraini Md Nusi	Applied Science	2012	1-May-12	24	1-May-14	74,800.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Science and Mathematical Physics
67	FRGS	Predictive Models of Mathematics Performance Based on Mathematics Engagement Among Malaysian Secondary School Students	Ahmad Fauzi Mohd Ayub	1) Prof. Madya Dr. Rohani Ahmad Tarmizi 2) Prof. Dr. Kamariah Abu Bakar 3) Prof. Dr. Aida Suraya Md. Yunus 4) Prof. Dr. Wan Zah Wan Ali 5) Dr. Rosnani Mahmud	Literature and the Arts Professional	2012	1-May-12	36	1-May-15	50,000.00	Ministry of Higher Education (MOHE)	Laboratory of Ethnomathematics and Didactics
68	FRGS	Double Bootstrap Confidence Interval for Log-Logistic Model with Covariate and Censored Data	Jayanthi a/p Arasan	1) Prof. Dr. Hjh. Noor Akma Ibrahim 2) Dr. Mohd. Bakri Adam	Pure Sciences	2012	1-May-12	24	1-May-14	48,000.00	Ministry of Higher Education (MOHE)	Laboratory of Computational Statistics & Operations
69	FRGS	On Degenerations of Low Dimensional Complex Leibniz Algebras	Sharifah Kartini Said Husain	1) Prof. Madya Dr. Isamiddin S. Rakhimov 2) Dr. Siti Hasana Sapar	Pure Sciences	2012	1-May-12	24	1-May-14	40,000.00	Ministry of Higher Education (MOHE)	Laboratory of Cryptography, Analysis and Structure
70	FRGS	Numerical Solution of Direct Multistep Block Methods for Solving Higher Order Boundary Value Problems	Zanariah Abdul Majid	1) Prof. Dr. Fudziah Ismail 2) Prof. Madya Dr. Zarina Bibi Ibrahim	Applied Science	2013	1-Mar-13	24	1-Mar-15	164,000.00	Ministry of Education (MOE)	Laboratory of Computational Science and Mathematical
71	FRGS	Necessary and Sufficient Conditions for Evasion in Multiplayer Differential Game with Integral Constraints on Control Functions	Ibragimov Gafurjan	1) Prof. Dr. Fudziah Ismail 2) Prof. Madya Dr. Zanariah Abdul Majid 3) Prof. Madya Dr. Leong Wah June 4) En. Risman Mat Hasim 5) Chik Yusra bt Salleh	Pure Sciences	2013	1-May-13	24	1-May-15	61,000.00	Ministry of Education (MOE)	Laboratory of Cryptography, Analysis and Structure
72	FRGS	A New Copula-based System for Physical Random Phenomena	Mahendran Shitan	1) Prof. Dr. Habshah Midi 2) Paulie Mah Jin Wee	Pure Sciences	2013	1-May-13	24	1-May-15	61,000.00	Ministry of Education (MOE)	Laboratory of Computational Statistics & Operations
73	FRGS	On the Cardinality of the Set of Solutions to Congruence Equation Associated with Higher Degree Polynomial	Siti Hasana Sapar	1) Prof. Dato' Dr. Hj. Kamel Ariffin Mohd. Atan 2) Prof. Madya Dr. Mohamad Rushdan Md. Said	Pure Sciences	2013	1-May-13	24	1-May-15	61,000.00	Ministry of Education (MOE)	Laboratory of Cryptography, Analysis and Structure
74	FRGS	Cure Model for Interval Censoring with Time-Dependent Covariates	Noor Akma Ibrahim	1) Prof. Madya Dr. Mohd Rizam bin Abu Bakar 2) Dr. Jayanthi a/p Arasan	Pure Sciences	2013	1-May-13	24	1-May-15	63,000.00	Ministry of Education (MOE)	Laboratory of Computational Statistics & Operations

No.	Grant Scheme	Project Title	Project Leader	Co Researcher	Research Area	Year Received	Start Date (as per Agreement)	Duration (months)	Completion Date	Total Approved (RM)	Funding Sources	Laboratory
75	FRGS	Mathematical Modeling of Flow and Heat Transfer over a Stretching/Shrinking Cylinder in Nanofluid	Norfifah Bachok@Lati	1) Prof. Madya Dr. Norihan Md. Arifin 2) Dr. Norazak Senu 3) Dr. Fadzilah Md Ali	Applied Science	2013	1-May-13	24	1-May-15	69,000.00	Ministry of Education (MOE)	Laboratory of Computational Science and Mathematical Physics
76	FRGS	Darcy-Forchheimer Convective Flow and Heat Transfer of an Incompressible Fluid Embedded in a Porous Medium	Norihan Md. Arifin	1) Dr. Fadzilah Md Ali 2) Pn. Nurfifah Bachok@Lati	Applied Science	2013	1-May-13	24	1-May-15	69,000.00	Ministry of Education (MOE)	Laboratory of Computational Science and Mathematical
77	FRGS	Assessment of Primary and Secondary Mathematics Teachers' Affective Paradigm and Higher Order Thinking Skills (HOTS) Ability : A Brain-Based Instructional Strategies Perspective	Mat Rofa Ismail	1) Prof. Dr. Kamariah Abu Bakar 2) Prof. Madya Dr. Rohani Ahmad Tarmizi 3) Dr. Ahmad Fauzi Mohd Ayub 4) Dr. Sharifah Kartini Said Husain 5) Prof. Dr. Aida Suraya Md. Yunus	Literature and the Arts Professional	2013	1-May-13	24	1-May-15	80,000.00	Ministry of Education (MOE)	Laboratory of Ethnomathematics and Didactics
78	FRGS	High Leverage Collinearity Influential Observations and New Robust Ridge Estimator for Logistic Regression	Habshah Midi	1. Dr. Md. Sohel Rana	Applied Science	2013	1-Dec-13	24	1-Dec-15	88,850.00	Ministry of Education (MOE)	Laboratory of Computational Statistics & Operations Research
79	FRGS	Fundamental Mathematical Cryptanalysis Treatment on Side Channel Attacks Upon the AA_{β} Public Key Cryptosystem	Muhammad Rezal Kamel Ariffin	1. Prof. Madya Dr. Mohamad Rushdan Md. Said 2. Prof. Madya Dr. Santo Banerjee 3. Dr. Siti Hasana Sapar	Applied Science	2013	1-Dec-13	24	1-Dec-15	93,000.00	Ministry of Education (MOE)	Laboratory of Cryptography, Analysis and Structure
80	FRGS	Development and Implementation of Fuzzy Version of Block Backward Differentiation Formulas (FBBDF) For Solving Fuzzy Differential Equations	Zarina Bibi Ibrahim	1. Prof. Madya Dr. Zanariah Abdul Majid 2. Prof. Madya Dr. Khairil Iskandar Othman 3. Dr. Nurfifah Bachok@Lati	Applied Science	2013	1-Dec-13	24	1-Dec-15	62,000.00	Ministry of Education (MOE)	Laboratory of Computational Science and Mathematical Physics
81	FRGS	Lyapunov Function Approach and Global Convergence of Iterative Methods for Unconstrained Optimization	Leong Wah June	1. Prof. Madya Dr. Zarina Bibi Ibrahim 2. Fahreddin Abedi 3. Aliyu Usman Moyi	Pure Sciences	2013	1-Dec-13	24	1-Dec-15	63,000.00	Ministry of Education (MOE)	Laboratory of Computational Statistics & Operations Research
82	FRGS	Non Monotonic Hazard Model For Right And Left Truncated Data With Mixed Case Interval-Censored Lifetimes And Time Varying Covariates	Jayanthi a/p Arasan	1. Prof. Dr. Noor Akma Ibrahim 2. Prof. Dr. Habshah Midi	Applied Science	2014	1-Dec-14	24	30-Nov-16	55,000.00	Ministry of Education (MOE)	Laboratory of Computational Statistics & Operations Research
83	FRGS	Evaluation of Option Pricing by Using the Mixed Fractional Brownian Motion	Adem Kilicman	1. Prof. Madya Dr. Siti Hasana Sapar 2. Dr. Norazak Senu	Applied Science	2014	1-Dec-14	24	30-Nov-16	58,000.00	Ministry of Education (MOE)	Laboratory of Cryptography, Analysis and Structure
84	FRGS	The Problem of Description of a Class of Complex Filiform Leibniz Algebras	Isamiddin S. Rakhimov	1. Prof. Madya Dr. Siti Hasana Sapar 2. Dr. Sharifah Kartini Said Husain 3. Prof. Dato' Dr. Hj. Kamel Ariffin Mohd. Atan	Pure Sciences	2014	1-Dec-14	24	30-Nov-16	78,000.00	Ministry of Education (MOE)	Laboratory of Cryptography, Analysis and Structure

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85	FRGS	Symmetry Reductions for Systems of Quantum Information Theory	Hishamuddin Zainuddin	1. En. Chan Kar Tim 2. Dr. Bahari Idrus	Pure Sciences	2014	1-Dec-14	24	30-Nov-16	140,000.00	Ministry of Education (MOE)	Laboratory of Computational Science and Mathematical Physics
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