

SENARAI PROJEK YANG DILULUSKAN DI BAWAH SEKSYEN DANA MOSTI TAHUN 2013

| TAHUN | JENIS DANA | TAJUK PROJEK LULUS |
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| 2013 | SCIENCEFUND | <p>Smart Solar House : An Approach To Optimize Solar Energy Consumption For Home Utilizing Multiagent System</p> <p>Enhancement of the Cytotoxic Effects of Serum Estrogen Receptor Modulators on Breast Cancer by Recombinant Human Erythropoietin</p> <p>MammoMass Detector: An Automated Masses Detection based on Case-Base-Reasoning Classifier and Haralick-Texture Extractor for MRI Digital Breast Mammogram Diagnosis.</p> <p>Synthesis and characterization of Fe₂O₃/TiO₂/SiO₂ and Fe₂O₃/TiO₂/Activated Carbon nanocomposite photocatalyst for dye removal</p> <p>Remote sensing data synergy for mapping and monitoring large-scale infrastructure projects</p> <p>Antiviral properties of Garcinia mangostana: phytochemical isolation, and derivatisation of active compound.</p> <p>Detection of abnormal conditions in waste water treatment plants using image analysis.</p> <p>Proxy Mobility Management for IP-based Wireless Sensor Networks for Sports</p> <p>Statistical Noise Modeling for Reliable Nano-Circuits and Systems (nanoCAS)</p> <p>Quality of Service Based Traffic Controller For Fiber-Wireless (FiWi) Access Network</p> <p>Development of a lifting model for the Malaysian population</p> <p>Self Organizing Mobility Schemes with QoS supports for LTE-WiFi Networks.</p> <p>Vision Guided Pointer for Tele-Assisted Surgery and Medical Consultation</p> <p>Development of high directivity copper strip electromagnetic bandgap antenna for sectoral base station</p> <p>Sistem Pencegaman Iris berasaskan Video Melalui Imej Mata (Visible Wavelength)'Video-based Iris Recognition System Through Visible Wavelength Eye Images'</p> <p>Experimental Development of Duty-Cycle Division Multiplexing with Economic Transmitter and Receiver for High-Speed Optical Telecommunications</p> <p>A cyber defense system by using honeybee concepts and strategies.</p> <p>Development Of Secure Real-Time Data Hiding System In Gsm Mobile Encoded Speech Signal</p> <p>3D spatial modelling and managing topology in DBMS using the new dual half-edge data structure</p> <p>Mobility and Handoff Management for Cognitive Radio Mobile Ad-Hoc Networks (CRMANETs)</p> <p>A Sustainable Cyber-Physical security model (CyPSeT) for protecting Critical National Information Infrastructure (CNII) againsts illicit activities and cyber terrorism</p> <p>Unsupervised real time prediction of faults using an efficient strategy for QP in the support vector machine to implement incremental training for efficient classification and regression.</p> <p>Biomediated soil improvement</p> <p>Environmental effects and its influence of increased green house gasses in Peninsular Malaysia</p> <p>Modelling of Intelligent Load Shedding Scheme Incorporating State Estimation for Islanded Distribution Network Operation</p> <p>Development of Multi-Purpose Measurement Device and System For Forest Inventory and Mapping</p> <p>Molecular Characterization of Fragrance-related transcripts in Benzenoid/Phenylpropanoid pathway of Vanda Mimi Palmer (Fragrant-orchid)</p> <p>Development of highly sensitive PAL enzyme biosensor based on pellet format for the determination of orchid flower anthocyanin content at progeny stage</p> <p>Functional study of specific microRNAs in the lignin biosynthesis pathway to manipulate lignin level production in industrial pulp plants</p> <p>CYP1A Biomarker in Common Mullet- An Indicator to PAH and Dioxin Exposure</p> |
| | | <p>Biological and Molecular Characterization of Newcastle Disease Virus Genotype VII in Malaysia- Towards Development of Local Vaccine</p> <p>Development, characterization, and bioavailability of cocoa nanopolyphenol</p> <p>Pilot Strategy Study to use HPV DNA testing to complement Conventional Pap Smear & Liquid Based Cytology in the Primary Screening of Cervical Cancer in Malaysia</p> |

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| 2013 | SCIENCEFUND | Comparative Genomics of Clinical and Environmental Burkholderia pseudomallei to Understand Emergence of Virulence |
| | | Development of Dynamic Rollover Warning System for Heavy Vehicle using Weigh-in-motion technology |
| | | Hybrid Photovoltaic/Thermal Systems for Sustainable Tourism Development in Malaysia |
| | | Natural Language Interface to Quran Ontology: Towards a new Quranic education platform in Malaysia. |
| | | Highly Reliable and Robust Security in Wireless Sensor Network for Military Application |
| | | Engineering synthetic biological platforms for bacterial surrogates |
| | | Evaluation of T cell and dendritic cell responses upon vaccination with H5-recombinant fowlpox viruses coexpressing host cytokine |
| | | Generation of Human Amniotic Fluid Stem (AFS) Cells from Full Term Pregnancies: Prospective Cells for Therapy |
| | | Development of a Dielectrophoresis Microfluidic Lab-on-Chip Device Prototype for Pure Population Isolation of Untransformed Murine Bone Marrow Derived Mesenchymal Stem Cells |
| | | The production of monoclonal antibody against excretory and secretory proteins (ES) of the filariform larvae (L3) of Strongyloides stercoralis causing disseminated strongyloidiasis. |
| | | The Evaluation of Mechanical Properties, Ageing Behaviour and Design Analysis of an Advanced Ceramic for Biomedical Application |
| | | Synthesis of Nanogels from Radiated Functional Copolymers for Drug Delivery System |
| | | A Comprehensive Impact Assessment Study of Micro Financing Schemes in Malaysia |
| | | Investigation of novel high potential optical sensor for detection of heavy metal ions in aqueous solution. |
| | | Quantification of adhesion of fat-based fouling deposit to the stainless steel surface during cleaning-in-place |
| | | Potential Herbs (Acmella uliginosa, Melastoma malabathricum, Piper sarmentosum & Piper betle) against Vaginal Candidiasis Induced Rats. |
| | | Remediation of Soil Contaminated using Improvised Electrokinetic Method |
| | | Therapeutic efficacy of oral tHGA in murine models of allergic asthma |
| | | A Prototype Development Of Sidewalk Design Support Tool: Based On Pedestrian Decision Pattern Recognition |
| | | Geoinformation Based Marine Cadastre Legal Framework For Socio-Economic Sustainable Development in Malaysia |
| | | The design and development of semi-controlled environmental building for reproduction of rabbit |
| | | Optimization of process conditions for the fabrication of novel flexible radio frequency identification (RFID) antennas |
| | | Development of graphene-based microwave integrated circuit filters |
| | | Distributed Topology Control for Post-Disaster Information Distribution Wireless Ad Hoc Networks |
| | | Secure Group Communication for Critical National Information Infrastructure (CNII) |
| | | A Framework for Modeling, Analyzing, and Predicting Cyber Warfare Attacks |
| | | Writer Recognition Techniques for Handwritten Text Document |
| | | Development of Head Monitoring System Using Array Transceiver for Microwave Imaging Application |
| | | A Design Framework for Multi-Processor System-on-Chip (MPSoC) Architecture Design-Space Exploration in Biomedical Application: Human Heart ECG Monitoring and Processing |
| | | A Dynamic User Centric Model for Managing and Tracking Change and Modification Requests (DUCMoRe) of Prototype-Based Web Applications |
| | | Component-based Software Engineering Approach for Automated Embedded Precision Farming Systems |
| | | Development Of Enhanced Computational Intelligence Software For Oil And Gas Reservoir Characterization |
| Hardware-Software Visualization to Promote Problem Solving Skills among Novice Programmers | | |
| Development of A Low Cost DataGlove by Combining Flexible Bend and Force Sensors: Toward Virtual Reality's Applications | | |
| Design and Analysis of Robust Distributed Routing Protocols for Wireless Sensor Networks Achieving Reliability and Lifetime Extension | | |
| A Spectrum-Aware and Intelligent Routing Scheme for Performance Enhancement in Cognitive Radio Networks | | |

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| 2013 | SCIENCEFUND | The 6-hop Hybrid Bee Peer-to-Peer System |
| | | Genetic Variation Among Six Malay Subethnic Groups: Inferences From 8 Alu Insertion Polymorphisms |
| | | In vivo modulatory effects of standardised extracts of Phyllanthus amarus and Tinospora crispa on innate immune responses |
| | | Immunophenotype of CD antigens as diagnostic and prognostic biomarkers for gastric cancers |
| | | The Impact of Composite PLGA-Collagen Electrospun Nanoscaffold on Cartilage Regeneration |
| | | Hybrid collagen nanofibers – skin cell patch for the immediate treatment of severe burn |
| | | Enhancement of nerve regeneration using natural and synthetic conduits seeded with neural differentiated stem cells for the future treatment of paralysis |
| | | Regeneration of human ear by co-culturing microtic chondrocytes with human adipose tissue derived stem cells |
| | | Anticancer properties of glucans from 'kulat liat', Lentinus squarrosulus. |
| | | Proteomics analysis of virus host interaction: the Chikungunya virus |
| | | Preparation, characterization, in vitro and in vivo study of Prednisolone poly (FAD-SA) nanoparticle using palm oil derivatives. |
| | | Development of Novel Microbial Inoculant (NMI) from Tapai and Tempeh for Plant Growth |
| | | Development of new genetic tools for protein overexpression and rapid purification systems |
| | | Innovative Design of Simultaneous Bio-electricity Generation and Wastewater Treatment by Microbial Fuel Cell |
| | | Development of ternary copper(II) complexes as effective and selective anticancer drugs via ROS-modulation and /or proteasome inhibition |
| | | Identification of Biomarker for Neurodegenerative Disorders and Their Potential Diagnostic Application |
| | | The Role of Melatonin in Brain Iron Homeostasis and its Relevance to Parkinson's Disease |
| | | Identification of genes required to produce slowly digested rice for diabetes management |
| | | Lactococcus displaying multiple influenza protein antigens as oral vaccine against pathogenic and pandemic Influenza viruses |
| | | Optimization of process conditions for the extraction of bioactive compounds from indigenous kembayu (Dacryodes rostrata) fruits |
| | | Verification of DNA biomarkers for heat stress indicator in dairy cattle |
| | | Screening Of Mutant Pummelo For Improved Fruit Quality |
| | | Assessment of molecular marker for growth performance in Savanna goats |
| | | Optimization of production and in vitro pharmacodynamics of tetrahydrofuran derivative F4009bP1 from fungal strain FRIM550 against Multidrug-resistant Staphylococcus aureus |
| | | Integrated Pest Management (IPM) For Effective and Sustainable Cocoa Pod Borer (CPB) Control |
| | | Structural Parameters and Properties of Kenaf/Cotton Blended Spun Yarns produced via Rotor Spinning |
| | | Development Of Slope Stability Charts For Rainfall Induced Failure In Tropical Soils. |
| | | Miniaturized Multilayer Ring-Based Microwave Filter Integrated Circuits for High-Density System-on-Chip in Wireless and Mobile Communications at Ka-Band |
| | | Experimental Investigation of Concrete Filled Thin Walled Steel Tubes Columns to Steel Beam Connections. |
| | | Optimisation Of Rib In Slim Steel Fibre Reinforced Concrete (Sfrc) Load Bearing Wall Panel |
| | | Development of flame retardant nanocomposite from irradiated EVA/LDPE and nano-Magnesium hydroxide for cable insulators. |
| | | A Hydrophobic Green Polyurethane For Anti-Weathering Coating On Fiberboard |
| Energy Consumption Optimization in VLSI Floorplanning of Intergrated Chip(IC) manufacturing process | | |
| Design and Implementation of Multiband LTE based Single Chip RF Front End, Integrated LNA and Mixer in Low Voltage, Low Cost Standard CMOS Technology | | |
| Producing Ultra Fine Grain Tubes Using Tubular Channel Angular Pressing (TCAP) | | |
| Laser Assisted Micro-Milling of Biomaterial for Implant Parts. | | |
| Performance envelope for glass fibre reinforced epoxy (GRE) composite pipes under multiaxial loadings. | | |

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| 2013 | SCIENCEFUND | Bio-gasoline production from POME-derived biogas via dry reforming-Fischer Tropsch synthesis routes catalyzed by rare-earth metal-doped catalysts |
| | | Development of high-performance visible active nano-photocatalysts for sustainable photo-electrocatalytic hydrogen production from water splitting |
| | | Effect of drying on the viability of thermophilic mixed culture for Palm Oil Mill Effluent (POME) treatment |
| | | Development of Cross Laminated Timber (CLT) using Pioneer Timber Species into Structural Panel for IBS Application |
| | | Exploitation of industrial bio-residues for the production of nano-sized cellulose materials |
| | | Miniaturization of Single-fed Multiband Inverted-F Antenna using Novel Finite Ground Slots for Slim Wireless Devices |
| | | Molecular identification of Acartia species (Copepoda; Calanoida) in the coastal regions of Malaysia |
| | | The Development of Physical Oceanography Real Time Data Analysis System from Ocean Space-based Technology |
| | | Remote Sensing and Field Survey Analysis of Active Faults in Tectonically Active Areas in Malaysia |
| | | Micro-scaled Cooling Technology: Thermal Performance of Micro Heat Pipes for Use in Spacecraft Radiator |
| | | Marine leech, <i>Zeylanicobdella arugamensis</i> infestation in marine farm fish: Occurrence, Pathogenicity and Control measures |
| | | Ciproxifan, a Histamine H3 Antagonist as a Potential Therapeutic agent in Alzheimer's Disease |
| | | Eye tracking patterns with music intervention using VNG (videonystagmography) to improve brain plasticity among children with autism |
| | | Development and Modelling Data Centre System of Animal Profiling and Animal Heredity History of Livestock |
| | | Transabdominal Fetal Oxygen Saturation Measurement using Low Power Optical Technique: Instrumentation and Phantom Analysis |
| | | Statistical Modelling of Drought Events and Proneness in Peninsular Malaysia |
| | | A Smart User Interface Tool for Sustainability Performance of Motor Impaired Users in Learnable and Enjoyable Environment of Game Base Learning (GBL) |
| | | Reliability nano-pMOSFET Devices and Circuits Simulation - From Device Processes and Characterization to Reliability Compact Model |
| | | Development of Erythrolyum cuneatum fractions as an anti-withdrawal drug and their role in neuronal plasticity implicated in cognitive and neurobehavioral performance |
| | | Development Of High Durable Polymer-Clay Electrolyte Membrane For Direct Methanol Fuel Cell |
| | | Application of Novel Sunlight Driven Doped Reduced Black Titanium Dioxide Photocatalyst for Landfill Leachate Treatment |
| | | Multifunctional and Reconfigurable Substrate-integrated-dielectric-resonator (SIDR) Microwave Components |
| | | Computer-Aided Breast Cancer Detection and Diagnosis in Computed Tomography Laser Mammography (CTLM) |
| | | Development of Long Term Evolution Relays Based on Successive Relaying Protocol for Enhanced Spectral Efficiency |
| | | Efficient Autonomous Recovery Algorithm for Parallel and Distributed Systems |
| | | Active learning classification and prediction engine for use in electrical distribution grids with high penetration levels of grid-connected solar PV-DG |
| | | Development of Pineapple Varieties With Improved Desirable Traits Through The Use Of Artificial MicroRNA Technology. |
| Self Sustainable Eco-Anaerobic Membrane Bioreactor System | | |
| Development And Application Of Agarose Gel Membrane Microextraction For Removal And Analysis Of Environmental Pollutants In Water | | |
| Evaluation of Less Developed States Towards Becoming High Income Nation | | |
| Advanced Palm-Fibre Composites (PFCs) For The Aerospace Industries | | |
| High throughput technology for identification of anti-inflammatory compound(s) from honey for wound healing application. | | |
| Automatic Real Time Energy Consumption Disaggregation for Non-intrusive Load Monitoring | | |
| Integrated On-Field System for Combined Gas Species and Humidity Sensing with Wireless Transmission | | |
| Trusted Remote Medical Telemonitoring Attestation Model | | |

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| 2013 | SCIENCEFUND | Development of a prototype robotic tennis ball retrieval and distribution based on computer vision technology |
| | | A Constraint-driven Software Clustering Technique for Remodularisation of Software Systems |
| | | Semantic Knowledge Management Model for Collaborative Learning Environment |
| | | Large Scale Evaluation of The Developed Computer Aided Auscultation System at Malaysian Hospitals |
| | | An Integrated Approach based on Co-classification of Opinion Spam and Spammer Detection Framework to Enhance the Effectiveness of an Opinion Retrieval System |
| | | MIMO-OFDM Radio over Fiber Integration for 4G Backhaul Heterogeneous Network |
| | | A Mimo Dielectric Resonator Antenna For Lte/ Lte-Advanced Application |
| | | Real-time Character Motion Control Using Data Gloves |
| | | The Development of a Real Time Illicit Image and Video Filtering System |
| | | Intuitive Mobile-based Tracking for Urban Simulation in Augmented Reality Environment |
| | | Unmanned-Aerial-Vehicle (UAV) Thermal Video Content Analysis for Crowd Detection and Tracking Applied to Internal Security |
| | | Optimised Multicast support for Mobile sender in Wireless Mesh Networks |
| | | Hierarchical Horizontally Cross-tiered Scheduling for Downlink in LTE-Advanced Mobile Telecommunication System |
| | | Integrating Finger Vein and Finger Geometry Features for Robust User Authentication |
| | | Fully Automatics Segmentation on Laser Range 3D Point Cloud for Animating Meaningful Features in Computer Graphics |
| | | Effects Of Virgin Coconut Oil And Palm Tocotrienol Combination On Heated Oil Induced Atherosclerotic Lesions On Postmenopausal Rat Model |
| | | Increasing flavonoid production in <i>Lactococcus lactis</i> through metabolic flux analysis |
| | | Structure-function elucidation of a hypothetical protein as a potential biomarker and drug target for polycystic ovarian syndrome (PCOS) |
| | | Targeting betulin and ellagic acid as a potential anticancer candidates from <i>Phyllanthus watsonii</i> Airy Shaw |
| | | Functional analysis of six novel exonic and splicing variations of the amylo-alpha-1, 6-glucosidase, 4-alpha-glucanotransferase (AGL) gene as potential causes of Glycogen Storage Disease type III |
| | | Evaluation of <i>Mycobacterium indicus pranii</i> (MIP) as an immuno-potentiator in combination with 1'S-1'-Acetoxychavicol acetate (ACA) from the Malaysian <i>Alpinia conchigera</i> against various cancer types |
| | | Application of somatic cell nuclear transfer in the production of Jermasia goat |
| | | Evaluation of anti-colorectal cancer properties via the prebiotic action of sago starch |
| | | Development of Recombinant Bivalent Vaccine Against Vibriosis in Tiger Grouper (<i>Epinephelus fuscoguttatus</i>) |
| | | Protein, amino acids and fatty acids contents in juvenile African catfish <i>Clarias gariepinus</i> : effects of triploidization and chlorpyrifos exposures |
| | | Chemical biology approach using photo-cross-linked small-molecule affinity beads to identify molecular target of methadone in apoptosis pathway |
| | | Development of a cold chain free DNA-based rapid test for the early diagnosis of meningitis. |
| | | Development of Navigated needle-based 3D image guided Biopsy for Lung Cancer Detection |
| | | Towards Structural Elucidation of Fibrinolytic Enzymes produced by Microbes from Malaysian Fermented Food |
| | | Drug-Like Ent-Labdane Diterpenoids As Neuroprotective Agents Targeting Amyloid- β -Induced Neurotoxicity By Suppressing Nf-Kb And Reactive Oxygen Species: Semisynthesis And Biological Evaluation |
| | | Identification of novel markers of host cellular responses to primary and secondary heterologous dengue virus (DENV) infection through microRNA regulated pathways |
| | | Proof-of-Concepts Study of Spred-2 for a Potential Gene Therapy for Nerve Repair |
| | | Development of In Vivo Imaging-Based Assay System for High-Throughput Screening of Antidepressant Compounds |
| | | Alkaloids from <i>Eurycoma longifolia</i> as Novel Therapeutic Agents for Social Isolation Induced Depression |
| | | Characterization of the molecular mechanisms of apoptotic-like death in <i>Toxoplasma gondii</i> tachyzoites during oxidative stress |
| Construction of Therapeutic and Diagnostic Bacteriophage: Towards Establishing Affordable Phage Based Therapy and Diagnostic Platform For <i>Shigella</i> Infection | | |

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| 2013 | SCIENCEFUND | Development of pathway-specific anti-cancer compounds from cytotoxic extracts of genotyped Actinobacteria isolates using Zebrafish embryos | | |
| | | Enhanced hydrogen production from agro-industrial waste using bio-electrochemical system and thermophilic fermentation | | |
| | | Stratified Charge Compressed Natural Gas Direct Injection with Turbocharger for Fuel Efficient Engine | | |
| | | Finite Element Method Application On Modified Asphalt Mixtures By Nano-Particles And Polymer Materials | | |
| | | Biobased thermoplastic composites from thermoplastic natural rubber and mengkuang fiber | | |
| | | Measurement and Imaging of Soil Water Content and Hydraulic Conductivity in 3D and Real Time for Saturated and Unsaturated Soil Based on Electrical Capacitance Tomography Development | | |
| | | Novel Development of Lightning Detection System Network Utilizing Inverse Procedure Technique and Measured Electromagnetic Fields | | |
| | | Development of Jatropa Oil Based Polyurethane /Nano-Alumina as Scratch Resistance Coating Materials | | |
| | | Recovery of P and N from effluent through struvite precipitation | | |
| | | Low Gradient Magnetic Separation of Microalgae from Fish Farm Water | | |
| | | Porous LiFePO4 Cathode Materials for Aqueous Rechargeable Lithium-ion battery | | |
| | | Development of Novel Biofloculants from Empty Fruit Bunches for Drinking Water and Sewage Treatment Applications | | |
| | | Real-time Multi-axis Motion Control System with Vibration Reduction Scheme | | |
| | | Shallow Geothermal Energy Pile Bearing Capacity In Clay | | |
| | | Optimized Quantitative Method of Risk Allocation Sharing Between Partners in Public-Private Partnership Projects in Malaysia | | |
| | | Development Of Novel Low Nox Flameless Combustion System Fueled By Biogas Produced From Palm Oil Mill Effluent | | |
| | | Green Technology Utilizing Catalytic Methanation for the Carbon Dioxide Treatment of Coal Burning Power Plant Flue Gases | | |
| | | 2013 | SCIENCEFUND | Production and Evaluation of Biodegradable Bioplastic Pot for Planting of Fast Growing Tree |
| | | | | Development of a novel and sustainable microwave pyrolysis process for the production of potential fuel products from waste oil |
| Design and Machining Control System for open CNC architecture model based on ISO 14649 | | | | |
| Unifying Green Financing and ISO 14000 (Environmental Management) global standards: Frontiers in Transforming Malaysian SMEs into Environmentally Sustainable Entities | | | | |
| Direct Carbon Fuel Cell Technology Fuelled by Palm Oil Waste- Maximum System Efficiency attained by Direct Conversion of Carbon into Electricity without H2 Source | | | | |
| Development of New Biofiller for Thermoplastic from Waste Eggshell | | | | |
| High Quality Hot Formed Automotive Structural Part Using Boron Alloyed Steel | | | | |
| Ambient Radioactivity and Radiological Studies in the vicinity of Lynas Rare-Earth Processing Plant, Gebeng Industrial Estate, Kuantan, Pahang. | | | | |
| Biokinetic modeling for radionuclide accumulation in fishes and bivalves affected by Lynas Rare Earth Processing Plant | | | | |
| Low strain rate upset forging of preformed CoCrMo alloy | | | | |
| Biodegradable Green Packaging Materials From Polyhydroxybutyrate-co valerate/Nanocrystalline Cellulose Bio-nanocomposites | | | | |
| Integrated Zero Waste Slip Rotary Moulding Technique of Hollow Ceramic | | | | |
| Innovative Powder Injection Moulding Process for Producing Cobalt-based Metallic Femoral Hip Stem. | | | | |
| Metal Oxides Coated Carbon Foam for High Performance Electrode In Supercapacitor Application | | | | |
| Plasma sprayed TiO2/ Titanate composite coating for photocatalytic activity enhancement. | | | | |
| UKM-CHILD Activity of Daily Living Index: Its use as a tool to measure Vision Rehabilitation Training Impact. | | | | |
| Dietary carbohydrate requirements of Malaysian masheer, Tor tambroides | | | | |
| Developing Tsunami Inundation Models and Maps for Malaysia: Towards Security in Coastal and Offshore Facilities | | | | |
| Assessment Of Subsurface Infrastructures Condition Using Image-Based Non-Destructive Testing System | | | | |

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| | | Design and Development of Utility Mapping Field-to-Finish System using Ubiquitous 3D-GIS Technique |
| | | Wake vortex alleviation of a wing with a reverse delta wing add-on device using Particle Image Velocimetry (PIV) |
| | | Construction and Testing of a New Renewable Energy Source Based On Ocean Salinity and Temperature Energy Conversion Principle (OSTEC) |
| | | Experimental Biosorption and Bioaccumulation of Rare Earth Elements (Lanthanides) using Biomass of Macroalgae |
| | | Development of Intelligent Emotional Stress Behaviour Assessment (ESBA) System for Stroke Patients Using Electroencephalogram (EEG) Signals |
| | | Development of CMOS-process compatible ZnO nanorod synthesis by physical vapor deposition for high-sensitivity solid-state sensor application |
| | | Smart Reconfigurable Plasma Antenna Using Fluorescent Tube for Indoor Wireless Transmission Applications |
| | | Density Functional approach to Calculating Optical and Electrical properties of Binary and Ternary alloys quantum dots |
| | | Development Of Benzoyl Pyridyl Pyrazole Complexes, M(CO) ₂ Cl ₂ (Bzpypz) (M=Ru, Re And Os; Bzpypz=Functionalized 1-Benzoil-3-(Piridin-2-Il)-1H-Pirazol) As Potential New Dye Sensitizer For Solar Assisted Photoelectrochemical Cell |
| | | Multiple-Hypothesis Approach to Video Assisted Physiotherapy Monitoring System. |
| | | A Computer Assisted Vertebral Fracture Assessment System for Vertebrae Irregularity Classification and Retrieval. |
| | | Exploring Metabolic and Hormonal Responses Elicited by Rice Consumption in Humans: Comparisons between Crossbred and Commercial Rice |
| | | Innovation Of A Novel Instrument To Examine The Pattern Of Limb Loading On The Human Legs In Clinical Practice |
| 2013 | SCIENCEFUND | Sustainability Of Reading Performance And Mapping Of Functional Mri Among Dyslexic Children In Malaysia Using Special Reading Aids |
| | | Development of Solution Processable Organic Light-Emitting Field Effect Transistors (OLEFETs) Based On Ferroelectric Gate and Metal Oxide Electrodes towards High Efficiency Active Matrix Display |
| | | Nanoparticle implanted polymer based organic thermoelectric materials for thermo-solar hybrid solar cells |
| | | The Malaysian Falls Assessment And Intervention Trial (Myfait) |
| | | Structural Health Monitoring System through Distributed Sensing Based on Stimulated Brillouin Scattering In Optical Fiber |
| | | Synthesis of resveratrol analogues and studies on their cellular anticancer signalling pathways |
| | | Synthesis and electrical properties of novel Bi ₂ O ₃ -MO-Nb ₂ O ₅ (M = Mg, Ca, Sr and Ba) pyrochlore electroceramics |
| | | Characteristics of National Music of Malaysia: Formal Analysis and Local Perception on Composition Produced by Malaysian Composers |
| | | Modulation of synbiotic gastrointestinal persisters with quorum sensing interference properties in tiger grouper (<i>Epinephelus fuscoguttatus</i>) |
| | | Adaptive Mitigating Technique for High Linear Laser Transmitter for Radio Frequency Signal Transceiver |
| | | Geotechnical Performance Of Shallow Foundation For Industrialized Building System |
| | | Development of a smart microgrid energy management system |
| | | Development of Assessment Model for Energy-Efficient Building Construction Systems |
| | | New Innovative Double-Chamber Rotary Compressor With Variable Speed Brushless Dc Electrical Motor |
| | | Aerodynamic Stability Derivatives of a Hybrid Airship |
| | | Automatic Mangoes Detection from Complex Background Image for Agricultural Robotic Eye Application |
| | | Improving The Liquids Flow In Conduits And Pipes Using Structured Inner Surfaces And Polymeric Additives |
| | | Synthesis of Hybrid Amine Supported Mixed Matrix Membrane (Hy3M) for the Separation of Carbon Dioxide (CO ₂) from Methane. |
| | | Synthesis, Characterisation, and Evaluation of Folate-conjugated Amphiphilic Star-branched PLA-(PEG) ₂ Block Copolymers as Nanocarriers for Targeted Drug Delivery |
| | | Remittances, Institutional Innovations and Economic Development: A comparative analysis |
| | | A novel palm shell based activated carbon catalyst for carbon dioxide capture and reforming of methane |
| | | Nanostructured Ru-doped Li ₃ V ₂ (PO ₄) ₃ -C as High Power Lithium-Ion Battery Cathode Material. |

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| | | Development of temperature self-compensated optical dissolved oxygen sensor for aquaculture application |
| | | Development of semi-automated handheld maize seeder |
| | | 3D Cardiac Informative Model Through CT, Angiography and Echocardiography Image Fusion. |
| | | Development of Acoustic Echo Cancellation Software for Personal Computers |
| | | Automatic Image Enhancement Tool for Poor Visibility Outdoor Images |
| | | Removal of micropollutants from domestic and municipal wastewater through phytoremediation technology |
| | | The Effect Of Ascorbic Acid As Differentiation Inducer For Human Adherent And Suspension Peripheral Blood Mononucleated Cells |
| | | Golden sea cucumber (<i>Stichopus horrens</i>) water extract as cell growth promoting agent for mammalian cell based-technology |
| | | Display of the Matrix Protein of Influenza A Virus on the Surface of Nodavirus Capsid and its Application in Vaccine Development |
| | | Development of recombinant vaccine for caseous lymphadenitis in goats |
| | | Structural studies on Rubber Particle Membrane Proteins (REF and SRPP) |
| 2013 | SCIENCEFUND | Nanosensor based Determination of Melamine in Raw Milk and Milk Products |
| | | Alkyd core-shell structure for crack-resistant polymeric materials |
| | | Design, analysis and implementation of a micro-gripper manipulation system for biomedical and micro manufacturing applications |
| | | Development of Wireless Implantable Drug-Delivery Device Based on Integrated Out-of-Plane Shape-Memory-Alloy Microactuator |
| | | An integrated system for generation of randomized high power electromagnetic field for immunity testing of critical electrical and electronic components in automotive, defence and avionic industries. |
| | | Synthesis of Metal Ion-Imprinted Nano-Porous Polymers for Separation of Rare Earth Elements |
| | | Long Chain Alkanes decorated with Banana Shaped Molecules for the Development of Optical Storage Devices:Composite Mixture Study |
| | | Pyrazoline Derivatives Doped Dna-Ctma Thin Films As Nano Structured Bioleds: Synthesis And Characterization |
| | | Development of a pulsed electromagnetic non-destructive testing (NDT) system for fatigue crack detection and evaluation on multilayered riveted structure of aircraft components. |
| | | Quantifying and development of risk assessment model for antibiotic residue in Malaysia aquatic ecosystem |
| | | Polyphenols in oil palm (<i>Elaeis guineensis</i> Jacq.) fronds increase omega-3 fatty acids in ruminant meat. |
| | | Predicting shallow lakes ecosystem's response to climate variability to sustain ecosystem function |
| | | An Equatorial Ionosphere Index and Alert System for Space Weather Application |
| | | Investigating Pollution Haven Hypothesis in a Model of Production Fragmentation and Trade |
| | | Superlattice Coating by Cathodic Arc Physical Vapour Deposition (CAPVD) for Metal Allergy Prevention in Orthopedic Implants |
| | | Enhancement Of Thermal Neutron Beam Collimation Used In Neutron Imaging System For Industrial And Cultural Heritage Applications |
| | | Nutrient Dynamic on Interaction between Nitrogen and Carbon Nutrition and Water Management for Improving of Aerobic Rice Productivity using Isotope Discrimination Technique. |
| | | Development of New Technique using Chemical Vapor Deposition (CVD) for Radiation-induced Graft Co-polymerization as Aluminium Ion Adsorbent from Wastewater. |
| | | Development of NDT methods for quality control of concrete shielding materials |
| | | Development of polymeric thermal neutron radiation shielding material |
| | | Continuous Solar Drying with Borehole Heat Exchanger |
| | | Development of Portable, Low Cost, High Speed and High Precision Optical Dicing Machine |
| | | NbO ₂ and FeO ₂ mesoporous carbon composite for high power density supercapacitor electrode |
| | | An innovative photocatalytic cementitious concrete from gypsum waste for air depollution and self cleaning |
| | | Ratio Modulation of HA/TCP in Si-Biphasic Calcium Phosphate for Biomedical Coating Application |

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| | | Surface Modification of Activated Carbon with Titanium Oxide (TiO ₂) via Sol gel method for Energy Storage Applications. |
| | | Fabrication of Open Pore Cell Copper Foam via Metal Injection Molding Technique for LED Heat Sink Application |
| | | Improved Li-ion Battery Management System (BMS) for Stand-alone PV - application of BMS chip |
| | | Development of Electrospun Rayon based Carbon Fibre to Enhance Cathode Materials Durability For Lithium-Ion Batteries. |
| | | Super Hydrophilic Porous Chitosan Scaffold for Chronic Wound |
| | | High Transparency Cross-linked Chitosan/Hyaluronic Acid (HA) Biomimetic Membrane for Exudative Wound Treatment |
| | | Development of Highly Durable Optrode Ammonium Sensor based on Fluorescent Nanosphere for Aquacultural Conditioned Water. |
| | | Thermally Stable Lanthanide Complexes Doped Sol-gel Phosphor For White LED Encapsulation Material |
| 2013 | SCIENCEFUND | Novel periodontal composite membrane containing naturally derived antimicrobial lauric acid for guided bone regeneration. |
| | | Dry Anaerobic Fermentation of Solid Organic Residues for Energy and Nutrient Recovery |
| | | Degradation of estrogenic endocrine disrupting compounds (eEDCs) from wastewater using hybrid bio-photocatalytic system |
| | | Single Step Catalytic Synthesis of DiMethyl Ether (DME) from Biogas Feedstock |
| | | Enantioselective lipase from Bacillus subtilis for the production of enantiopure compound. |
| | | Application of isotope techniques in identifying and quantifying the groundwater resources for sustainable groundwater resources management |
| | | Enhancement of Groundwater Potential Model Using Remote Sensing and GIS Techniques |
| | | Development of Tuna Fishing Site Identification Model Using Multi-Sensor Satellite Remote Sensing |
| | | Development of Food Traceability System Applying Nuclear Analytical Technique by Using Rice as The Food Model |
| | | Development of Radioactive Source Tracking System |
| | | Structural and Functional Genomics of Glycoside and Peptide Hydrolases from the Extremophiles Glaciozyma antarctica and Bacillus lehensis G1 for the Biobased Economy |
| | | Identification of genes associated with laticiferous tubule development and expression analysis in different clones correlating with laticifer development |
| | | Acceleration of Hevea brasiliensis breeding programmes through the discovery and validation of SNP markers |
| 2013 | TECHNOFUND | Development of Advanced Flexible Manufacturing System with Dynamic Jobs Scheduling and Sequencing Capability |
| | | Two Dimensional FlatSAT Satellite Electronics Layout with Test Model Structure |
| | | Innovative Satellite to Demonstrate Malaysian Space Technology (CubeSAT) |
| | | High Performance Parallel Data Warehousing System |
| | | Integrated Intelligent Command Control And Communication System (IICCS) |
| | | Development and Evaluation of a Prototype Lateral Flow Cassette Rapid Test for Laboratory Diagnosis of Extraintestinal Amoebiasis |
| | | Development of Genetically Improved Disease Resistance Line of Black Tiger Shrimp (Penaeus monodon) in a Closed Nucleus Breeding Center. |
| | | PRE-COMMECIALIZATION OF SELECTIVELY BRED RED TILAPIA |
| | | PILOT PRODUCTION OF HALAL COLLAGEN FROM FISH SCALE |
| | | Optimized Cross Calibration and Validation Process for Airborne and Spaceborne Next Generation Platforms |
| | | Large Scale Production of Tuber of Tiger's Milk Mushroom (Lignosus Rhinocerus) |
| | | GPU Enhanced Robust Multi-Dimensional Facial Identification System for CCTV Evidence In Video Forensics Analysis |
| | | Spatial Smart City Service Delivery Engine |
| | | Rapid Emergency Medical System with Geospatial Technology |
| | | Konsortia Nanocrystalline Cellulose |

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| | | Graphene Wafer |
| INNOFUND | | |
| 2013 | Community | Development of truck flooring boards from plantation-grown acacia in Sabah |
| | Enterprise - Individu | Development of wireless battery management System (Wi-BMS) for electric Vehicle (EV) |
| | Enterprise - Micro | Innovative Lightweight wall panel intergrating foam and palm oil fuel ash/silts aggregates |
| | Community | Peningkatan Sosio-Ekonomi Komuniti Melalui Pembangunan Kemudahan Ekstraksi Produk Oleoresin Gaharu Dan Aplikasi Teknologi Inokulasi Pokok Karas: Fasa 3 : Pembangunan Kilang Ekstraksi Minyak Gaharu Berinovasi” |
| | Enterprise - Individu | 3D Desktop Printer Prototype |