

No.	Project Title	Project Leader	Institution	Research Cluster
1	Multilingual Terminology Management System for Political Terms (Poli Term Bank)	Ranaivo-Malançon Balisoamanandray	Multimedia University	ICT
2	Technology for Social Inclusion: Investigation of Alternative Interactive Installation Designed for Users with Special Needs.	Kamarulzaman Ab. Aziz	Multimedia University	ICT
3	Object Based Error Concealment for Stereoscopic 3D Video	Hezerul Abdul Karim	Multimedia University	ICT
4	New algorithm to extract botanical properties for pattern creation	Tan Yi Fei	Multimedia University	ICT
5	An Addressed Based Keys Authentication and Encryption for IPv4/IPv6 Translation Gateway	NAZRUL MUHAIMIN AHMAD	Multimedia University	ICT
6	The Development of Block-Based Mashup Tool	Rodziah Latih	Universiti Kebangsaan Malaysia	ICT
7	Development Of Intelligent Deviation Detection System for Financial Documents	Azuraliza Abu Bakar	Universiti Kebangsaan Malaysia	ICT
8	Development of Compact Ultra Wideband Antenna for Medical Application	Kamarulzaman Mat	Universiti Kebangsaan Malaysia	ICT
9	Modelling and Reduction of Specific Absorption Rate in the Human Head	Mohd Faisal Ibrahim	Universiti Kebangsaan Malaysia	ICT
10	Development of Tropospheric Scintillation Algorithm for Satellite Broadcast Applications	MANDEEP SINGH	Universiti Kebangsaan Malaysia	ICT
11	Construction and Implementation of New Numerical Solution for Industrial Application	Mohammad Khatim Hasan	Universiti Kebangsaan Malaysia	ICT

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12	Development of a wireless network system of electrical conductivity for soil measurement	Zamri Bin Chik	Universiti Kebangsaan Malaysia	ICT
13	The Development of Future Mobile Communication Call Admission Control for Heterogenous Traffic	Mohammad Faizal Ismail	Universiti Malaya	ICT
14	Design and Development of an Error Resilient and Efficient Image Coder for Wireless Networks	Farid Ghani	Universiti Malaysia Perlis	ICT
15	Distributed System for Grid Security Infrastructure to Protect IP and Messages through the Network	Ghossoon Mohammed Waleed	Universiti Malaysia Perlis	ICT
16	The Development of Intelligent Ethical Wealth Planner	Rosita Chong	Universiti Malaysia Sabah	ICT
17	iPepper: Automatic Intelligent Pepper Grading and Quality Assurance System	DAYANG NURFATIMAH BINTI AWG ISKANDAR	Universiti Malaysia Sarawak	ICT
18	A Generic Text to Speech System for Indigenous Languages in Sarawak	Sarah Flora Samson Juan	Universiti Malaysia Sarawak	ICT
19	WFSAT: Development of Web Based Fish Stock Assessment Tools Using Length Based Method	Fakhrul Adli Mohd Zaki	Universiti Malaysia Terengganu	ICT
20	Development Of A Prototype Automated Application Able To Capture, Store And Study Suspicious Files In An Organization's Network	Syed Nasir Alsagoff bin Syed Zakaria	Universiti Pertahanan Nasional Malaysia	ICT
21	Intelligent Peri-Operative Decision Support System (iPoDSS) for Coronary Artery Disease Patients	Md. Nasir Sulaiman	Universiti Putra Malaysia	ICT
22	Reliable 3d Mobile Tv Transmission Over Geo Satellite Networks For Disaster Management Applications	Aduwati Sali	Universiti Putra Malaysia	ICT

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23	Database Management System Cloud	Chan Huah Yong	Universiti Sains Malaysia	ICT
24	Medical Image Transmission through Multi-Path Fading Channel for Telemedicine Purposes	David Yap Fook Weng	Universiti Teknikal Malaysia	ICT
25	Controller Optimization Technique for MIMO System using Metamodeling Approach	Shahrum Shah Abdullah	Universiti Teknologi Malaysia	ICT
26	Computational model on Muscle Therapy for Human body using Grid Computing Platform	Norma binti Alias	Universiti Teknologi Malaysia	ICT
27	Virus and Worms Identification Tools for Web Application in Medical Online System: A combination Approach Bayesian Network and Regression Analysis (BEYRA)	Rabiah Ahmad	Universiti Teknologi Malaysia	ICT
28	Development of Decision Tool System Using Discrete Event Simulation To Improve Operational Effectiveness at Public Service Centre (Case Study Vehicle Inspection Centre Malaysia)	Azurah bte A.Samah	Universiti Teknologi Malaysia	ICT
29	Computational Method To Predict Protein Domain Using Machine Learning Algorithms And Biological Knowledge	Muhamad Razib bin Othman	Universiti Teknologi Malaysia	ICT
30	Propagation Model Development and Tuning For WiMAX systems Operating at 2.3GHz&3.5GHz	Tharek bin Abd Rahman	Universiti Teknologi Malaysia	ICT
31	Development of Web Content Filtering System Based On Image Understanding Algorithm.	Mohd. Aizaini bin Maarof	Universiti Teknologi Malaysia	ICT
32	Network-on-Chip Interconnects Testing Based on Unicast and Multicast Transport Mechanisms	Muhammad Nadzir Marsono	Universiti Teknologi Malaysia	ICT
33	A Subdivision Surfaces For a Virtual Environment Application	Abdullah bin Bade	Universiti Teknologi Malaysia	ICT

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34	The Development of Neuron Visualization Algorithm for Neuroinformatic Application using Gouroud Shading	Mohd Shafry bin Mohd Rahim	Universiti Teknologi Malaysia	ICT
35	Inventing New Item Analysis Techniques For Effective Item Bank System	Chan Yuen Fook	Universiti Teknologi MARA	ICT
36	Development of Online Nonlinear System Identification Techniques for Wireless Environment	Vijanth Sagayan Asirvadam	Universiti Teknologi PETRONAS	ICT
37	Nature-Inspired Intrusion Prevention and Self-Healing System for Critical Services Technology Infrastructure.	Azween	Universiti Teknologi PETRONAS	ICT
38	A Novel Algorithm for Estimation of Depth in 3D Applications using Focus and Defocus Cues	Aamir Saeed Malik	Universiti Teknologi PETRONAS	ICT
39	Development of Computer Augmented Reality Engineering Mechanics Learning System (CAREMeLS)	Manjit Singh a/ Basant Singh	Universiti Tenaga Nasional	ICT
40	A Computational Approach to Modelling Multi-Dimensional Human Aesthetic Perception	Mohammed Azlan Bin Mohamed Iqbal	Universiti Tenaga Nasional	ICT
41	Highly Scalable Real-time Intelligent Audio Visual System for Large Scale People Authentication and Recognition Over Internet Protocol (IP)	Seng Kah Phooi	University of Nottingham Malaysia Campus	ICT
42	Detection and Prediction of Lung Cancer using the zNose with the Support Vector Machine classifier.	Roselina Arelhi	University of Nottingham Malaysia Campus	ICT
43	SVM based battery - supercapacitor energy management system for Electric Vehicles(EV)	Mutasim Ibrahim Nour	University of Nottingham Malaysia Campus	ICT
44	Development of iodine-131 radiolabeled epidermal growth factor receptor monoclonal antibody for the early diagnosis of head and neck cancer.	karuppaiya	Malaysian Nuclear Agency	BIOTECHNOLOGY

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45	Elucidation of the Mechanism of Antimicrobial Activity of Plant-derived Pentacyclic Triterpenoids on Staphylococcus aureus	Parasakthi Navaratam	Monash University Sunway Campus Malaysia	BIOTECHNOLOGY
46	Synthesis of [F-18]-Fluorocholine as a Positron Emission Tomography (PET) radiotracer for cancer imaging	Faizal Mohamed	Universiti Kebangsaan Malaysia	BIOTECHNOLOGY
47	Investigation of activity of locally isolated quorum quenching bacteria against bacterial pathogens	CHAN KOK GAN	Universiti Malaya	BIOTECHNOLOGY
48	Gastric Biopsies, Urea, Breath Test and Serum LGG Antibodies Responses In The Helicobacter Pylori Infection and Gastric Cancer In Three Districts of Sabah	Murtaza Mustafa	Universiti Malaysia Sabah	BIOTECHNOLOGY
49	Construction of picornavirus internal ribosome entry site (IRES) based expression vector for protein delivery	Nurulfiza Mat Isa	Universiti Putra Malaysia	BIOTECHNOLOGY
50	A combinatory treatment for cancers using novel pro-apoptotic gene coupled with anti-cancerous augmentation by anti-angiogenic factor.	Zeenathul Nazariah binti Allaudin	Universiti Putra Malaysia	BIOTECHNOLOGY
51	Transformation and Expression of Insulin Gene in the Gut L Cells for a Potential Gene Therapy in Diabetes	Zalinah bt. Hj Ahmad	Universiti Putra Malaysia	BIOTECHNOLOGY
52	Effects of Antimicrobial - Induced Stress on Bioactive Proteins or Peptides Production by Bacillus sp. and Lactobacillus sp.	Hanina Binti Mohd Noor	Universiti Sains Islam Malaysia	BIOTECHNOLOGY
53	Rapid synthesis of carbon nanotubes by microwave irradiation and its application in lipase immobilization for enzyme mediated synthesis of epoxidized fatty acid esters from waste cooking oil	Saifuddin bin Hj. M. Nomanbhay	Universiti Tenaga Nasional	BIOTECHNOLOGY
54	Acetyl Cholinesterase Inhibitors from Mesua species and Their QSAR Studies	Nor Hadiani Binti Ismail	Universiti Teknologi MARA	BIOTECHNOLOGY
55	Development of Mobile Radioscopy System for Industrial Inspection	Khairul Anuar B. Mohd Salleh	Malaysian Nuclear Agency	INDUSTRY

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56	Development of Quantum Dots-Enzyme Hybrid System for the Determination of Uric Acid	Jaafar Abdullah	SIRIM Berhad	INDUSTRY
57	Development Of Low Cost Cutting Tool Wear Monitoring System In Machining Process	Jaharah binti A Ghani	Universiti Kebangsaan Malaysia	INDUSTRY
58	Grid Connected Photovoltaic Generation System With Efficient MPPT and Converter Control	Azah binti Mohamed	Universiti Kebangsaan Malaysia	INDUSTRY
59	Development of High Current Density Membrane Electrode Assembly for Fuel Cell Portable Power Application	Edy Herianto Majlan	Universiti Kebangsaan Malaysia	INDUSTRY
60	Development of Image Rotary Encoder for High Precision Motion Control	See Phen Chiak	Universiti Malaysia Pahang	INDUSTRY
61	Underwater Wireless Communication System for Autonomous Underwater Robot Vehicle	Yoong Hou Pin	Universiti Malaysia Sabah	INDUSTRY
62	Development of Biodegradable Elastomer/Calcium Phosphate Synthetic Ligament Graft for Potential Use in Ligament Reconstruction.	Abdirahman Ali Yussuf	Universiti Teknologi Malaysia	INDUSTRY
63	Achieving Robotic Welding Quality on Ship Panel Structure with Optimized Distortion and Minimal Defects using FEA and Advanced NDT	Dr. -Ing. Yupiter H P Manurung	Universiti Teknologi MARA	INDUSTRY
64	Networked-Control of PLC-based Intelligent Controller for PWM-driven Variable Speed Drive with Constant Volt/Hz Ratio	Nordin bin Saad	Universiti Teknologi PETRONAS	INDUSTRY
65	Development of a cadmium telluride quantum dot zinc oxide sensitized solar cell utilizing gel polymeric electrolyte	Mohd. Yusri Abd. Rahman	Universiti Tenaga Nasional	INDUSTRY
66	Improved Power Electronic Reactive Power Compensator for the Future Transmission Lines	Mohamed S. A. Dahidah	University of Nottingham Malaysia Campus	INDUSTRY

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67	Diet Preferences of Sea Turtles in Sipadan and Mabul Islands, Malaysia	Pushpa M. Palaniappan	Universiti Malaysia Sabah	SEA TO SPACE
68	An Optimum Method for the Design and Maintenance of Mooring Lines	Kurian V. John	Universiti Teknologi PETRONAS	SEA TO SPACE
69	Effects of exotic and indigenous tree stands on soil properties, microclimate and woody plant diversity of an ex-tin mine	Ang Lai Hoe	Forest Research Institute of Malaysia	S&T CORE
70	Experimental Analysis and Numerical Modelling of Tidal Stream Turbine	Ooi Yongson	Multimedia University	S&T CORE
71	Three Dimensional Investigation of Cerebrospinal Fluid Flow in the Third Ventricle and the Aqueduct of Sylvius.	AZIAN ABD. AZIZ	Universiti Islam Antarabangsa Malaysia	S&T CORE
72	Pembinaan Protokol Piawai Reka Bentuk Busana Melayu Untuk Pembuatan Massa	Haziyah Hussin	Universiti Kebangsaan Malaysia	S&T CORE
73	Development of phthaloyl chitosan	SITI ROHANA MAJID	Universiti Malaya	S&T CORE
74	Understanding The Root of HIV/AIDS-related Stigma and Discrimination: Nationwide Computer Assisted Telephone Interview (CATI) Survey	Wong Li Ping	Universiti Malaya	S&T CORE
75	Modelling and Analysis of Islanding Operation for Distribution Network Connected with Distributed Generations	Hazlie bin Mokhlis	Universiti Malaya	S&T CORE
76	Trajectory Tracking Lqr Control Of Two Wheels Mobile Robot	Nor Maniha Ghani	Universiti Malaysia Pahang	S&T CORE
77	Redefining Destination Management : Identifying Critical Success Factors on Tourism Sustainability and Corporate Social Responsibility	liew heng mei	Universiti Malaysia Sabah	S&T CORE

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78	Roosting and Nesting Behavior of White-nest Swiftlets (<i>Aerodramus fuciphagus</i>)	Lim Chan Koon	Universiti Malaysia Sarawak	S&T CORE
79	Design and Development of an Electrohydrodynamic (EHD) Micropump with a Flow Simulation Study	Andrew R.H. Rigit	Universiti Malaysia Sarawak	S&T CORE
80	The distribution and prevalence of leptospirosis in the Rejang basin of Sarawak	Mohamad Taha Arif	Universiti Malaysia Sarawak	S&T CORE
81	Anaemia in pregnancy: A cross sectional study at Kajang Hospital	Rusinahayati Mokhtarudin	Universiti Putra Malaysia	S&T CORE
82	Pembentukan Model Gaya Hidup Sihat dalam kalangan Survivor Kanser Payudara Wanita Bekerja	Zoharah Omar	Universiti Putra Malaysia	S&T CORE
83	Price Sensitivity-Consumer Satisfaction Relationship towards Durable Goods	WONG FOONG YEE	Universiti Putra Malaysia	S&T CORE
84	Professional Development Needs of English, Math and Science Teachers in the English for Teaching Math and Science (ETeMS) Buddy System	Jayakaran Mukundan	Universiti Putra Malaysia	S&T CORE
85	Generalizations of Matrix Convolution Product and Some Applications	Adem KILICMAN	Universiti Putra Malaysia	S&T CORE
86	Identifying biochemicals and genetic markers associated with metformin responses in Malaysian diabetic patients, a step towards personalized medicine	Zalinah bt. Hj Ahmad	Universiti Putra Malaysia	S&T CORE
87	Three Dimensional Reconstruction and Fluid Flow Simulation for Pre and Post Functional Endoscopic Sinus Surgery, and through the Radiocephalic Arteriovenous Fistula with and without localized Stenosis.	Wan Ahmad Kamil bin Wan Abdullah	Universiti Sains Malaysia	S&T CORE
88	Development of an Intelligent Risk Quantification and Assessment Model of Stormwater Detention Pond	SUPIAH SHAMSUDIN	Universiti Teknologi Malaysia	S&T CORE

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89	Finite Element Study of Stress Concentrations in Hydro-electric Power House Structures	Jahangir Bakhteri s/o Sayed Hassan	Universiti Teknologi Malaysia	S&T CORE
90	Biomechanical Analysis and Implant Development for Total Arthroplasty of the Shoulder and Elbow Joint.	MOHD YAZID BIN YAHYA	Universiti Teknologi Malaysia	S&T CORE
91	Development of porous tantalum chondrocyte implant for repair of focal osteochondral defects - in vivo study in goats.	Muhamad Noor Harun	Universiti Teknologi Malaysia	S&T CORE
92	Development of Novel Implant with Micropatterns to Improve Wear Resistance in Load Bearing Joint of the Hip and Knee.	Syahrullail Samion	Universiti Teknologi Malaysia	S&T CORE
93	Ergonomic Improvements in Air Handler Manufacturing for Air Conditioning Applications	Loo Huck Soo	Universiti Teknologi MARA	S&T CORE
94	The Creation Of Hybrid Organizational Form: Collaboration Of Biotechnology Companies, Research Institutes And Universities.	norlida kamaluddin	Universiti Teknologi MARA	S&T CORE
95	Fabrication of Nanocomposite CNT/MEH-PPV Blended Hybrid Organic Solar Cell	Puteri Sarah Binti Mohamad Saad	Universiti Teknologi MARA	S&T CORE
96	A novel optimization method for training neural network in early detection of automotives breakdown and performance accessment using data logger.	Zuraidi Saad	Universiti Teknologi MARA	S&T CORE
97	Development of Self Compacting Polymeric Greencrete incorporating Waste Materials from Rice Husk and Coal	Muhd Fadhil bin Nuruddin	Universiti Teknologi PETRONAS	S&T CORE
98	Statistical Based Logic Reasoning Tools for Nano-Computing	Nor Hisham Hamid	Universiti Teknologi PETRONAS	S&T CORE
99	Introducing Embedded System Design and Development to Secondary School Children - A Community and Technology Based Project	Azizah binti Suliman	Universiti Tenaga Nasional	S&T CORE

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100	Developing framework and measurement tool for quality of life in Iskandar Malaysia region	Wan Zahari Wan Yusoff	Universiti Tun Hussein Malaysia	S&T CORE
101	Develop a new technique to reduce Finite Element Analysis Model derivation time and adoptable by commercial packages.	Lee Kok Yong	Universiti Tunku Abdul Rahman	S&T CORE