

KEPUTUSAN PRPI 2009 - Kluster : Sains Teknologi & Kejuruteraan

Bil.	Nama Penyelidik	Ahli Kumpulan Penyelidik	PTJ	Tajuk Penyelidikan	Kategori	Kluster	No. Rujukan	Medal
103	Chin Nyuk Ling	Dayang Norulfairuz Abang Zaidel and Yus Aniza Yusof and Rusly Abdul Rahman	Fakulti Kejuruteraan	Laboratory Set-up for Rheological Characterisation of Gluten Extensibility	Fundamental (A)	Science, Technology and Engineering	A-STE-ENG-103	Silver
104	Chin Nyuk Ling	Chan Suit Mun, Yus Aniza Yusof and Rosnita A. Talib	Fakulti Kejuruteraan	Modelling of Rheological Behavior of Pummelo Juice Concentrates Using Master-Curve	Fundamental (A)	Science, Technology and Engineering	A-STE-ENG-104	Bronze
105	Ahmad Fauzi Abas	Amin Malekmohammadi, Ghafour Amouzad Mahdiraji, Safuraa Mohd Basir, Mohamad Khazani Abdullah, Makhfudzah Mokhtar and Mohd Fadlee A. Rasid	Fakulti Kejuruteraan	Absolute Polar Duty Cycle Division Multiplexing (AP-DCDM)	Fundamental (A)	Science, Technology and Engineering	A-STE-ENG-105	Bronze
106	Anuar Kassim	Tan Wee Tee, Saravanan Nagalingan and Ho Soon Min	Fakulti Sains	Green Energy from Photoelectrochemical Cell Using Chalcogenide Thin Film Materials (Cu ₄ SnS ₄)	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-106	Bronze
107	Mohd Aspollah Sukari	Mohd Zulkhairi Azid, Gwendoline Ee Cheng Lian, Ahmad Bustamam Abdul and Nor Azah Mohamad Ali	Fakulti Sains	Comparison between Conventional and Microwave-assisted Hydrodistillation Methods Towards Extraction of Essential Oils from <i>Murraya koenigii</i> (curry leaves)	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-107	Bronze
108	Mohd Aspollah Sukari	Tang Sook Wah, Nordin Hj. Lajis, Mawardi Rahmani and Abdul Manaf Ali	Fakulti Sains	Phytochemicals and Cytotoxic Activity of <i>Kaempferia augustifolia</i> Rosc.	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-108	Silver
109	Taufiq Yap Yun Hin	Wong Yee Ching, Zulkarnain Zainal and Mohd Zobir Hussein	Fakulti Sains	Synthesis of Self-Assembled Nanorod Vanadium Oxide Bundles by Sonochemical Treatment	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-109	Bronze
110	Wan Mahmood Mat Yunus	Zainal Abidin Talib, Firas Kamel Mohamad Al-asfoor and Lim Mei Yee	Fakulti Sains	Thermal Effusivity Measurement of Virgin Coconut Oil-Methanol Mixtures Using Photoacoustic Technique	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-110	Silver

Bil.	Nama Penyelidik	Ahli Kumpulan Penyelidik	PTJ	Tajuk Penyelidikan	Kategori	Kluster	No. Rujukan	Medal
111	Jumiah Hassan	Alex See, Mansor Hashim and W. Mohd Daud W. Yusoff	Fakulti Sains	Dielectric Variations of Barium Titanate Additions on Mullite-Kaolinite Sample	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-111	Bronze
112	Nor Azowa Ibrahim	W. Md Zin W. Yunus, Siti Nur Afifi Ahmad and Khairul Zaman M Dahlan	Fakulti Sains	Green Composites : Effect of Electron Beam Irradiation and Poly (Vinyl Pyrrolidone)	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-112	Gold
113	Sidek Haji Abdul Aziz	Norfaizah Ismail, Khamirul Amin Matori, T.H Anuar and S.A Warid	Fakulti Sains	Crystallization of Amorphous Silica Glass Doped with Bismuth	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-113	Silver
114	Sidek Haji Abdul Aziz	Marlinda Daud, Halimah Mohamad Kamari and Khamirul Amin Matori	Fakulti Sains	Preparation and Physical Characterization of Borosilicate Glass from Local Silica Sand for Laboratory Glassware	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-114	Silver
115	Abdul Halim Shaari	Walter Charles, Zalita Zainuddin, W. Mohd Daud W. Yusoff, Zainal Abidin Talib and Elias Saion	Fakulti Sains	Colossal Dielectric Permittivity $\text{La}_{0.4}\text{Ba}_{0.4}\text{Ca}_{0.2}\text{Ti}_{0.6}\text{Mn}_{0.4}\text{O}_3$ for Internal Barrier Layer Capacitor	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-115	Silver
116	Abdul Halim Shaari	Hussein Baqiah, Chen Soo Kien, Imad Hamadneh, Mohd Faisal Mohd Aris and H.A.A Sidek	Fakulti Sains	The Roles of Magnetic Nanoparticles Addition in Bi-2223 Superconductor	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-116	Silver
117	Abdul Halim Shaari	Zalita Zainuddin, Lim Kean Pah, Walter Charles Primus, Zainal Abidin Talib, Hishamuddin Zanuddin, W. Mohamad Daud W Yusoff and Mohd Faisal Mohd Aris	Fakulti Sains	Novel Material for Capacitors Application Based on $\text{La}_{0.67}\text{Sr}_{0.33}\text{Mn}_{0.80}\text{Ti}_{0.20}\text{O}_3$ Perovskite	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-117	Silver
118	Zulkarnain Zainal	Teo Sook Ling, Mohd Zobir Hussein and Tan Wee Tee	Fakulti Sains	Optical and Photoelectrochemical Properties of Potentiostatically Deposited CuInS_2 Semiconductor Thin Films	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-118	Bronze

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119	Zulkarnain Zainal	Ahmad Mustaza, Imad Hamadneh, Mohd Zobir Hussein, Muhammad Farhan, Erina Farhani, Elyas Sadek Suleiman and Mohd Haniff Wahid	Fakulti Sains	Ceramics Superconductor REBa ₂ Cu ₃ O _{7-δ} (RE=Y, Dy & Er), Synthesis via Coprecipitation Method	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-119	Bronze
120	Emilia Abd Malek	Jeremy Robertson	Fakulti Sains	Stereoselective Oxidation Towards Galacto-configured Hydroxylated Lactam	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-120	Silver
121	Jumiah Hassan	Wong Swee Yin, Mansor Hashim and W. Mohd Daud W Yusoff	Fakulti Sains	Dielectric Properties of Strontium Titanate in the 1 MHz To 1.5 GHz Frequency Regions	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-121	Bronze
122	Mawardi Rahmani	Najihah Mohd Hashim, Mohd Aspollah Sukari, Hazar Bebe Mohd Ismail and Abd. Manaf Ali	Fakulti Sains	Antimicrobial, Antioxidant And Cytotoxic Activities of Four Melicope Species	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-122	Silver
123	Halimah Mohamed Kamari	Nurfahana Ayuni, Sidek Hj Abd Aziz, Zainal bidin Talib, W. Mohd Daud W. Yusoff, Zaidan Abd Wahab, Khamirul Amin Matori and Syaharudin Zaibon	Fakulti Sains	Elastic Properties of Zinc Borotellurite Glasses	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-123	Silver
124	Halimah Mohamed Kamari	Sidek Hj Abd Aziz, W. Mohd Daud W. Yusoff, Zaidan Abd Wahab and Iskandar Shahrin	Fakulti Sains	Optical Properties of Borotellurite Glass System	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-124	Silver
125	Halimah Mohamed Kamari	Kaida Khalid, Mohamad Zaki Ab. Rahman, W. Mohd Daud W. Yusoff and Nurul Hazwani Mohd Hashim	Fakulti Sains	Electrical Properties of Chitosan at Microwaves Frequency	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-125	Bronze
126	Wan Md Zin Wan Yunus	Gunasunderi Raju, Nor Azowa Ibrahim, Chantara Thevy Ratnam, Mohamad Zaki Ab. Rahman	Fakulti Sains	Effect of Methyl Acrylate Grafted Oil Palm Empty Fruit Bunch Fiber on Properties of Poly (vinyl chloride)/ Epoxidised Natural Rubber Composites	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-126	Bronze

Bil.	Nama Penyelidik	Ahli Kumpulan Penyelidik	PTJ	Tajuk Penyelidikan	Kategori	Kluster	No. Rujukan	Medal
127	Isamiddin S. Rakhimov	Ikrom R. Mirzarustamovich and Witriany Basri	Fakulti Sains	Classification Theorem of Low-Dimensional Diassociative Algebras	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-127	Bronze
128	Leong Wah June	Malik Hj Abu Hassan and Mansor Monsi	Fakulti Sains	Scaled Memoryless Symmetric Rank One Method for Large-scale Unconstrained Optimization	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-128	Bronze
129	Wan Mahmood Mat Yunus	Lim Mei Yee, Zainal Abidin, H.N.M. Ekramul Mahmud and Anuar Kassim	Fakulti Sains	Organic Conductor: Influence of Preparation Temperature	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-129	Gold
130	Fudziah Ismail		Fakulti Sains	Sixth Order Diagonally Implicit Diagonally Implicit Runge-Kutta-Nystrom Method with an Explicit First Stage for Solving Second Order Ordinary Differential Equations	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-130	Silver
131	Zaidan Abd Wahab	Norfarezah Hanim Edros, Syaharudin Zaibon, Aiza Masyati Mas'ut, Thai Ming Yeow, Khamirul Amin Matori and Mohd Zul Hilmi Mazyan	Fakulti Sains	Thermal Diffusivity Measurement of Soda Lime Silica (SLS)-Coal Fly Ash (CFA) Ceramics	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-131	Bronze
132	Mansor Ahmad	V. Pushpamalar and Norhanifah Mohd Yazid	Fakulti Sains	Biodegradation of Carboxymethyl Cellulose from Sago Waste by <i>Trichoderma reesei</i> Cellulase	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-132	No Medal
133	Zulkarnain Zainal	Lee Kong Hui, Mohd Zobir Hussein, Abdul Halim Abdullah and Imad Hamadneh	Fakulti Sains	TiO ₂ -Chitosan/Glass Photocatalyst for the Removal Of Monoazo Dye via Photodegradation -Adsorption	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-133	Silver
134	Zainal AbidinTalib	Josephine Liew Ying Chyi, W. Mahmood Mat Yunus, Zulkarnain Zainal, Abdul Halim Shaari, Mohd Maarof Moxsin, Lim Kean Pah, W. Daud W. Yusoff and Mohd Firdaus	Fakulti Sains	Structural, Morphology and Electrical Properties of Layered Copper Selenide Thin Film	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-134	Silver

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135	Tan Wee Tee	Nor Amirah Mohd Maamor, Tan Wee Tee and Nor Azah Yusof	Fakulti Sains	Voltammetric Studies of Nano Zirconium Dioxide/Carbon Nanotubes/ Chitosan-Modified Glassy Carbon Electrodes	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-135	Bronze
136	Zainidin K. Eshkuvatov	Mohammad Abdulkawi Mahiub and Nik Mohd Asri	Fakulti Sains	Numerical Solution of Cauchy Type Singular Integral Equations of the First Kind	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-136	Gold
137	Zainidin K. Eshkuvatov	Nik Mohd Asri and Mohammad Abdulkawi Mahiub	Fakulti Sains	Approximate Solution of Singular Integral Equations of the First Kind	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-137	Gold
138	Noor Akma Ibrahim	Fauziah Maarof, Kassim Haron and Lim Fong Peng	Fakulti Sains	Sampling Distribution of R^2 MAD from Standard Logistic Distribution	Fundamental (A)	Science, Technology and Engineering	A-STE-SCIENCE-138	Bronze
139	Shamala Subramaniam, Maher Sanabani	Mohamed Othman and Zuriati Zukarnain	Fakulti Sains Komputer dan Teknologi Maklumat	Multi-class Bandwith Reservation Scheme Based on Mobility Prediction for Handoff in Multimedia Wireless/Mobile Cellular Networks	Fundamental (A)	Science, Technology and Engineering	A-STE-FSKTM-139	Silver
140	Norwati Mustapha	Norwati Mustapha, Mohammad Hossein Nadimi-Shahraki, Md. Nasir Sulaiman and Ali Mamat	Fakulti Sains Komputer dan Teknologi Maklumat	A Scalable Numerical Method for Interactive Frequent Pattern Mining	Fundamental (A)	Science, Technology and Engineering	A-STE-FSKTM-140	Bronze
141	Lili Nurliyana Abdullah		Fakulti Sains Komputer dan Teknologi Maklumat	VASD on the Move	Fundamental (A)	Science, Technology and Engineering	A-STE-FSKTM-141	Gold
142	Mohamed Othman	Kweh Yeah Lun, Hamidah Ibrahim, Fatimah Dato ahmad	Fakulti Sains Komputer dan Teknologi Maklumat	Static Filter Range Selection Algorithm for Peer-to-Peer Network	Fundamental (A)	Science, Technology and Engineering	A-STE-FSKTM-142	Silver

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143	Puziah Abdul Latif	Shaharin Ibrahim	Fakulti Pengajian Alam Sekitar	Effects of Ultrasonic Irradiation on Raw Rubber Mill Effluent under Different Operating Conditions	Fundamental (A)	Science, Technology and Engineering	A-STE-ENV-143	Bronze
144	Sharifah Norazizan Syed Abd. Rashid	Mohd Rizal, Chai Sen Tyng and Asmidawati A.	Institut Gerontologi	Ownership and Usage of Computers and the Internet among Older Persons in Malaysia	Fundamental (A)	Science, Technology and Engineering	A-STE-IG-144	No Medal
145	Nik Mohd. Asri Nik Long	Zainidin K. Eshkuvatov	Institut Penyelidikan Matematik	Multiple Curved Cracks Problem in Plane Elasticity	Fundamental (A)	Science, Technology and Engineering	A-STE-INSPEM-145	Gold
146	Adem Kilicman	Hassan Eltayeb	Institut Penyelidikan Matematik	Partial Differential Equations with Constant Coefficients and Double Convolutions	Fundamental (A)	Science, Technology and Engineering	A-STE-INSPEM-146	Gold
147	Adem Kilicman	Hassan Eltayeb	Institut Penyelidikan Matematik	A New Integral Transform and Differential Equations	Fundamental (A)	Science, Technology and Engineering	A-STE-INSPEM-147	Silver
148	Mohamed Othman	Noraini Md Nusi, Mohamed Suleiman and Fudziah Ismail	Institut Penyelidikan Matematik	A Fast Electromagnetic Solver Using Half-Sweep and Quarter-Sweep Approaches in Source Free Region	Fundamental (A)	Science, Technology and Engineering	A-STE-INSPEM-148	Silver
149	Isamiddin S. Rakhimov	Isamiddin S. Rakhimov, Seyed Jalal Langari and Mouna Bibi Langari	Institut Penyelidikan Matematik	Cohomological Approach to the Classification Problem of Low Dimensional Nilpotent Leibniz Algebras	Fundamental (A)	Science, Technology and Engineering	A-STE-INSPEM-149	No Medal
150	Norazak Senu	Norazak Senu, Mohamed Suleiman, Fudziah Ismail and Norfifah Bachok @ Lati	Institut Penyelidikan Matematik	A 5(4) Pair Explicit Runge-Kutta-Nyström Method for Solving Oscillatory Problems	Fundamental (A)	Science, Technology and Engineering	A-STE-INSPEM-150	Silver

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151	Isamiddin S. Rakhimov	Isamiddin S. Rakhimov and Munther A.Hassan	Institut Penyelidikan Matematik	On Low-dimensional Lie-like Filiform Liebniz Algebras and Their Invariants	Fundamental (A)	Science, Technology and Engineering	A-STE-INSPEM-151	Bronze
152	Malik Hj. Abu Hassan	Leong Wah June and Mahboubeh Farid	Institut Penyelidikan Matematik	Gradient-Type Methods without Line Search for Large-scale Unconstrained Optimization	Fundamental (A)	Science, Technology and Engineering	A-STE-INSPEM-152	Silver
153	Nik Mohd. Asri Nik Long	Mohamad Yaghibifar	Institut Penyelidikan Matematik	Numerical Solution of Infinite Boundary Integral Equation by Using Galerkin Method with Laguerre Polynomials	Fundamental (A)	Science, Technology and Engineering	A-STE-INSPEM-153	Silver
401	Mohd Hasmadi Ismail	John C. Taylor and Kamaruzaman Jusoff	Fakulti Perhutanan	Sensitivity Analysis of an Optimal Access Road Location in Hilly Foret Area: A GIS Approach	Applied Research (B)	Science, Technology and Engineering	B-STE-FORR-401	Bronze
402	Md Zuki Abu Bakar	Awang Hazmi Awang Junaidi	Fakulti Perubatan Veterinar	Osteoinductive Biological Composite Scaffold for Bone Repair	Applied Research (B)	Science, Technology and Engineering	B-STE-VET-402	Gold
403	Mohd Sapuan Salit	Napsiah Ismail and Hambali Ariff	Fakulti Kejuruteraan	Concurrent Decision Making at the Concetual Design Stage Using Anlytical Hierarchy Process	Applied Research (B)	Science, Technology and Engineering	B-STE-ENG-403	Silver
404	Tey Beng Ti	Chew Few Ne, Tan Wen Siang, Ling Tau Chuan and Tan Chon Seng	Fakulti Kejuruteraan	A Gel-based Imaging Method for Quantitative Measurement of Green Fluorescent Protein	Applied Research (B)	Science, Technology and Engineering	B-STE-ENG-404	Bronze
405	Tey Beng Ti	Chong Fui Chin, Tan Wen Siang, Dayang Radiah Awang Biak and Ling Tau Chuan	Fakulti Kejuruteraan	Recovery of Histidine-tagged Nucleocapsid Protein of Nipah Virus Using Immobilised Metal Affinity Chromatography	Applied Research (B)	Science, Technology and Engineering	B-STE-ENG-405	Silver

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406	Mohd Amin Mohd Som	Waleed AbdulRashid Mahmood Yacoob, Abdul Halim Gahzali, Abdul Rashid Mohd Shariff and Aimrun Wayayok	Fakulti Kejuruteraan	RaDeR: Radar-Derived Rainfall Estimation System	Applied Research (B)	Science, Technology and Engineering	B-STE-ENG-406	Bronze
407	Senan Mahmood Bashi	Nashiren Farzilah Mailah, Mohamed A. Abdul Razak and Wong Bong Cheng	Fakulti Kejuruteraan	Design and Development of AC/AC PWM Auto Controller	Applied Research (B)	Science, Technology and Engineering	B-STE-ENG-407	Bronze
408	Senan Mahmood Bashi	Nashiren Farzilah Mailah, Norman Mariun and Ishak Aris	Fakulti Kejuruteraan	Neutral-Point-Clamped Multilevel Inverter Using Space Vector Modulation	Applied Research (B)	Science, Technology and Engineering	B-STE-ENG-408	Bronze
409	Ling Tau Chuan	Rattana Wongchuphan, Tey Beng Ti, Tan Wen Siang and Farah Saleena Taip	Fakulti Kejuruteraan	Dye-ligand Adsorbent for the Selective Adsorption of Immunoglobulin G	Applied Research (B)	Science, Technology and Engineering	B-STE-ENG-409	Bronze
410	Abdul Rashid Mohamed Shariff	Ruzinoor Che Mat and Ahmad Rodzi Mahmud	Fakulti Kejuruteraan	Development of 3d Web Based Terrain Visualizer	Applied Research (B)	Science, Technology and Engineering	B-STE-ENG-410	Gold
411	Russly Abdul Rahman	Behjat Tajeddin, Luqman Chuah Abdullah, Yus Aniza Yusof and Nor Azowa Ibrahim	Fakulti Kejuruteraan	Chararterization and Preparation of Biocomposite from Kenaf Cellulose and Low Density Polyethylene for Food Packaging Applicatin	Applied Research (B)	Science, Technology and Engineering	B-STE-ENG-411	Bronze
412	Zurina Zainal Abidin	Robiah Yunus, Sepidar Sayyar and Azahari Muhammad	Fakulti Kejuruteraan	Ultrasound Assisted Extraction of Jatropha Seeds	Applied Research (B)	Science, Technology and Engineering	B-STE-ENG-412	Silver
413	Helmi Zulhaidi B. Mohd. Shafri	Nasrulhapiza binti Hamdan and Mohamad Izzuddin bin Anuar	Fakulti Kejuruteraan	Hybrid Spectral-Spatial Oil Palm Tree Counting and Analysis (HSSOPTCA)	Applied Research (B)	Science, Technology and Engineering	B-STE-ENG-413	Silver

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414	Helmi Zulhaidi B. Mohd. Shafri	Mardeni Roslee and Raja Syamsul Azmir Raja Abdullah	Fakulti Kejuruteraan	UPM GPR Road Pavement System	Applied Research (B)	Science, Technology and Engineering	B-STE-ENG-414	Gold
415	Wan Azlina binti Wan Ab. Karim Ghani	Reza Alipour Moghadam Esfahani, Mohd Amran Mohd Salleh, Ahmad Tavassoli, Azni Idris, Salmiaton Ali and Rozita Omar	Fakulti Kejuruteraan	Hydrogen Rich Gas Production From Agricultural Waste by Applying Air Gasification in Fluidized Bed Reactor	Applied Research (B)	Science, Technology and Engineering	B-STE-ENG-415	Bronze
416	Wan Azlina binti Wan Ab. Karim Ghani	Bahareh Sanaie Movahed, Azni Idris and Reza Moghadam	Fakulti Kejuruteraan	Young Leachate Ammonical Nitrogen and Organic Removal from Transfer Station by Combined Attached Growth Bioreactor in Different Condition	Applied Research (B)	Science, Technology and Engineering	B-STE-ENG-416	No Medal
417	Aidy Ali	Reza Afshar and Barkawi Sahari	Fakulti Kejuruteraan	Auto Adjust Centre of Gravity (COG) Generator	Applied Research (B)	Science, Technology and Engineering	B-STE-ENG-417	Bronze
418	Sabira Khatun	Ayyoub Akbari Moghanjoughi, Borhanuddin Mohd Ali and Raja S. A. Raja Abdullah	Fakulti Kejuruteraan	IANRA: An Intelligent Route Discovery Framework for Load-Balancing in Wireless Networks	Applied Research (B)	Science, Technology and Engineering	B-STE-ENG-418	Gold
419	Zurina Zainal Abidin		Fakulti Kejuruteraan	Construction of Biofilm Using Textile Wire	Applied Research (B)	Science, Technology and Engineering	B-STE-ENG-419	Gold
420	Lim Kean Pah	Abdul Halim Shaari, Chen Soo Kien, Ng Siau Wei and Wong Jen Kuen	Fakulti Sains	Effect of Divalent Ions (A=Ca, Ba and Sr) Substitution in La-A-Mn-O manganite on Structural, Magnetic and Electrical Transport Properties	Applied Research (B)	Science, Technology and Engineering	B-STE-SCIENCE-420	Bronze
421	Chen Soo Kien	Tan Kwee Yong, Tan Kim Lee, Lim Kean Pah and Abdul Halim Shaari	Fakulti Sains	Enhanced Critical Current Densities in MgB ₂ By Mixing Relatively Impure Boron Powders	Applied Research (B)	Science, Technology and Engineering	B-STE-SCIENCE-421	Gold

Bil.	Nama Penyelidik	Ahli Kumpulan Penyelidik	PTJ	Tajuk Penyelidikan	Kategori	Kluster	No. Rujukan	Medal
422	Gwendoline Ee Cheng Lian	Chyi Meei Lim, Chan Kiang Lim, Mawardi Rahmani and Choon Fah Joseph Bong	Fakulti Sains	Alkaloids from Piper sarmentosum and Piper nigrum	Applied Research (B)	Science, Technology and Engineering	B-STE-SCIENCE-422	Bronze
423	Tan Kar Ban	Zulkarnain Zainal, Asiah Abdullah, Tah Poh Leng and Har Yeen Yee	Fakulti Sains	Phase Formation and Electrical Properties Study of Bismuth Pyrochlores and Related Materials	Applied Research (B)	Science, Technology and Engineering	B-STE-SCIENCE-423	Silver
424	Mohd Zobir Hussein	Mas Jaffri Masarudin, Khatijah Yusoff and Raha Abdul Rahim	Fakulti Sains	Synthesis of Plasmid -Mg/Al-Layered Double Hydroxide Nanobiohybrid as a Vector for Gene Expression	Applied Research (B)	Science, Technology and Engineering	B-STE-SCIENCE-424	Silver
425	Sidek Haji Abdul Aziz	Mohd Noorul Ikhsan Ahmad and Mohamad Pauzi Ismail	Fakulti Sains	Development of Ultrasonic Testing Method for Fresh Concrete Evaluation	Applied Research (B)	Science, Technology and Engineering	B-STE-SCIENCE-425	Silver
426	Siti Mariam Mohd Nor	Gerald Pattenden	Fakulti Sains	Synthesis of Azole-Based Cyclic Peptides and A New Approach towards Didmolamides	Applied Research (B)	Science, Technology and Engineering	B-STE-SCIENCE-426	Gold
427	Anuar Kassim	Mahnaz M. Abdi, H.N.M Ekramul Mahmud, Wan Mahmood Mat Yunus and Zainal Abidin Talib	Fakulti Sains	Novel Organic Conductor with High Electrical Conductivity for EMI Shielding	Applied Research (B)	Science, Technology and Engineering	B-STE-SCIENCE-427	Silver
428	Mohd Zobir Hussein	M.Yeganeh Ghotbi, Asmah Hj Yahaya and Mohd Zaki Abd Rahman	Fakulti Sains	Polymers as Size Controlling Agents for the Synthesis of Zinc Layered Hydroxide and Its Calcined Product	Applied Research (B)	Science, Technology and Engineering	B-STE-SCIENCE-428	Silver
429	Gwendoline Ee Cheng Lian	Yin Ping Wen, Mohd Aspollah Sukari, Rusea Go and Han Lin Lee	Fakulti Sains	Larvicidal Anthraquinones from Morinda citrifolia Roots	Applied Research (B)	Science, Technology and Engineering	B-STE-SCIENCE-429	Bronze

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430	Mahiran Basri	Siti Salwa, Mohd Basyaruddin Abd Rahman, Anuar Kassim, Raja Noor Zaliha Raja Abd Rahman, Abu Bakar Salleh and Zahariah Ismail	Fakulti Sains	Nano-engkabang Formulation for Excellent Skin Hydration	Applied Research (B)	Science, Technology and Engineering	B-STE-SCIENCE-430	Silver
431	Mahiran Basri	Chong Kah Huong, Ummi Hani Abdullah, Anuar Kassim, Zahariah Ismail, Abu Bakar Salleh, Mohd Basyaruddin Abd Rahman and Raja Noor Zaliha Raja Abd Rahman	Fakulti Sains	Designs and Development of Palm-Based Transdermal Nanoemulsions for Nsaids	Applied Research (B)	Science, Technology and Engineering	B-STE-SCIENCE-431	Gold
432	Azmi Zakaria	Mohd Sabri, Ahmad Warid, Noorfauzana, Mansor Hashim and Halimah Mohamed Kamari	Fakulti Sains	The Stability of Low-Voltage ZnO Based Varistor on Direct Current And Temperature Stresses	Applied Research (B)	Science, Technology and Engineering	B-STE-SCIENCE-432	Gold
433	Anuar Kassim	Lim Hong Ngee, Huang Nay Ming, Khiew Poi Sim and Chiu Wee Siong	Fakulti Sains	Dynamic Emulsion System for Cream Formulation and Drug Delivery	Applied Research (B)	Science, Technology and Engineering	B-STE-SCIENCE-433	Gold
434	Mohd Basyaruddin Abd Rahman	Asrul Farrish Udaiyappan Noraini Abd Ghani, Mahiran Basri, Emilia Abd Malek, Bimo Ario Tejo, Raja Noor Zaliha Raja Abd Rahman and Abu Bakar Salleh	Fakulti Sains	Chemo-Enzymatic Green Route Palm-Based Epoxides for Benign Surface Coating Nanoformulations	Applied Research (B)	Science, Technology and Engineering	B-STE-SCIENCE-434	Gold
435	Zanariah Abdul Majid	Mohamed Suleiman	Fakulti Sains	Efficient Parallel Direct Block Method for Solving Higher Order Ordinary Differential Equations	Applied Research (B)	Science, Technology and Engineering	B-STE-SCIENCE-435	Gold
436	Zanariah Abdul Majid	Mohamed Suleiman	Fakulti Sains	Three Point Block Method for Solving Ordinary Differential Equations	Applied Research (B)	Science, Technology and Engineering	B-STE-SCIENCE-436	Silver
437	Abdul Halim Shaari	Saedeh Ravandi, Lim Kean Pah, Chen Soo Kien and Hussain Baqiyah	Fakulti Sains	Enhancement of Critical Temperature in Bi-2223 Superconductor Ceramics via Eu_2O_3 Addition	Applied Research (B)	Science, Technology and Engineering	B-STE-SCIENCE-437	Silver

Bil.	Nama Penyelidik	Ahli Kumpulan Penyelidik	PTJ	Tajuk Penyelidikan	Kategori	Kluster	No. Rujukan	Medal
438	Wan Md Zin Wan Yunus	Emad A. Jaffar Al-Mulla, Nor Azowa Ibrahim and Mohd Zaki Abd Rahman	Fakulti Sains	N, N' -Carbonyl Difatty Amides from Palm Oil	Applied Research (B)	Science, Technology and Engineering	B-STE-SCIENCE-438	No Medal
439	Nor Azah Yusof	Siti Zareena Mohd Saat, Tan Wee Tee and Abdul Halim Abdullah	Fakulti Sains	Development of Practical Biosensor for Heavy Metal Ions by Exploiting Amino Acids as Recognition Elements	Applied Research (B)	Science, Technology and Engineering	B-STE-SCIENCE-439	Bronze
440	Nor Azah Yusof	Nurulhaidah Daud, Tan Wee Tee and Abdul Halim Abdullah	Fakulti Sains	Electrocatalytic Characteristic of Nanoparticles/Amino Acid Nanohybrid Modified Electrode In Development of Biosensor for Determination Of As(III)	Applied Research (B)	Science, Technology and Engineering	B-STE-SCIENCE-440	Bronze
441	Kaida Khalid	Nazarulhisyam Sukaribin	Fakulti Sains	Effectiveness of Sterilisation of oil Palm Bunch Using Microwave Technique	Applied Research (B)	Science, Technology and Engineering	B-STE-SCIENCE-441	Silver
442	Russly Abdul Rahman	R. Abdul Rahman, M.S. Liza, B. Mandana, S Jinap, A. Rahmat, I.S.M. Zaidul, A. Hamid, F.S. Taib and L.T. Chuan	Fakulti Sains dan Teknologi Makanan	Carbon Dioxide Superfluid Extraction of Flavonoid from Selected Herb (Eg Strobilanthes Crispus (Pecah Kaca) Etc)	Applied Research (B)	Science, Technology and Engineering	B-STE-FOOD-442	Silver
443	Zuriati Ahmad Zukarnain	Zuriati Ahmad Zukarnain, Mohammad Reza Soltan Aghaei, Ali Mamat and Hishamuddin Zainuddin	Fakulti Sains Komputer dan Teknologi Maklumat	A Quantum Algorithm for Network Routing	Applied Research (B)	Science, Technology and Engineering	B-STE-FSKTM-443	Silver
444	Zuriati Ahmad Zukarnain	Hayder Natiq Jasem, Mohamed Othman and Shamala Subramaniam	Fakulti Sains Komputer dan Teknologi Maklumat	The TCP-Based New AIMD Congestion Control Algorithm	Applied Research (B)	Science, Technology and Engineering	B-STE-FSKTM-444	No Medal
445	Norwati Mustapha	Norwati Mustapha, Mehrdad Jalali, Md Nasir Sulaiman and Ali Mamat	Fakulti Sains Komputer dan Teknologi Maklumat	A Web –Based Recommendation System to Predict User Future Movements	Applied Research (B)	Science, Technology and Engineering	B-STE-FSKTM-445	No Medal

Bil.	Nama Penyelidik	Ahli Kumpulan Penyelidik	PTJ	Tajuk Penyelidikan	Kategori	Kluster	No. Rujukan	Medal
446	Idawaty Ahmad	Idawaty Ahmad, Shamala Subramaniam and Mohammad Othman	Fakulti Sains Komputer dan Teknologi Maklumat	Performance Enhancement of Utility Accrual Scheduling Algorithms in Adaptive Real Time System	Applied Research (B)	Science, Technology and Engineering	B-STE-FSKTM-446	Bronze
447	Abu Bakar Md. Sultan	Abu Bakar Md. Sultan, Md. Nasir Sulaiman and Shahrzad Mohammad Pour	Fakulti Sains Komputer dan Teknologi Maklumat	New Partial Evaluation Function in Constructive Hyper-heuristic Framework for Examination Timetabling Problem	Applied Research (B)	Science, Technology and Engineering	B-STE-FSKTM-447	Silver
448	Zuriati Ahmad Zukarnain	Zuriati Ahmad Zukarnain, Mohammad Reza Heidarinezhad, Mohamed Othman and Nur Izura Udzir	Fakulti Sains Komputer dan Teknologi Maklumat	A Host Mobility Support with Adaptive Network Selection Method in Hybrid Wireless Environment	Applied Research (B)	Science, Technology and Engineering	B-STE-FSKTM-448	Silver
449	Rusli Abdullah	Rusli Abdullah, Mohd Zali Mohd Nor, Hidayah Sulaiman, Mohd Hasan Selamat and Masrah Azrifah Azmi Murad	Fakulti Sains Komputer dan Teknologi Maklumat	Agent-based Tool Support Collaborative KMS in Software Maintenance Process Environment	Applied Research (B)	Science, Technology and Engineering	B-STE-FSKTM-449	Silver
450	Mohd. Hasan Selamat	Koh Tieng Wei, Wong Pei Wen and Abdul Azim Abdul Ghani	Fakulti Sains Komputer dan Teknologi Maklumat	An Automated Tool as Efficiency Factor in Software Project Effort Estimation	Applied Research (B)	Science, Technology and Engineering	B-STE-FSKTM-450	Silver
451	Masrah Azrifah Azmi Murad	Masrah Azrifah Azmi Murad, Faramarz Safi, Md. Nasir Sulaiman and Nur Izura Udzir	Fakulti Sains Komputer dan Teknologi Maklumat	An Adaptable Business Process Execution Engine	Applied Research (B)	Science, Technology and Engineering	B-STE-FSKTM-451	Gold
452	Rahmita Wirza O.K. Rahmat	Puteri Suhaiza Sulaiman, Ramlan Mahmood and Abdul Hamid Abdul Rashid	Fakulti Sains Komputer dan Teknologi Maklumat	A Live Level Set (LLS) Algorithm for Automatic Segmentation of Disconnected Liver Regions in CT Scan Abdominal Dataset	Applied Research (B)	Science, Technology and Engineering	B-STE-FSKTM-452	Silver
453	Rahmita Wirza O.K. Rahmat	Elham Bagherian and Nur Izura Udzir	Fakulti Sains Komputer dan Teknologi Maklumat	Facial Feature Extraction	Applied Research (B)	Science, Technology and Engineering	B-STE-FSKTM-453	Bronze

Bil.	Nama Penyelidik	Ahli Kumpulan Penyelidik	PTJ	Tajuk Penyelidikan	Kategori	Kluster	No. Rujukan	Medal
454	Hazura Zulzalil	Hazura Zulzalil, Abdul Azim Abd. Ghani, Mohd. Hasan Selamat and Ramlan Mahmod	Fakulti Sains Komputer dan Teknologi Maklumat	Fuzzy Integral Approach in Quality Determination for Web-based Applications	Applied Research (B)	Science, Technology and Engineering	B-STE-FSKTM-454	Bronze
455	Fatimah Khalid	Fatimah Khalid, Tengku Mohd. Tengku Sembok and Khairuddin Omar	Fakulti Sains Komputer dan Teknologi Maklumat	3D Facial Recognition for Pose and Expression Variation	Applied Research (B)	Science, Technology and Engineering	B-STE-FSKTM-455	Bronze
456	Norfazlida Mohd Sani	Nor Fazlida Mohd Sani, Abdullah Mohd. Zin and Sufian Idris	Fakulti Sains Komputer dan Teknologi Maklumat	Plan Based Object-Oriented Understanding System	Applied Research (B)	Science, Technology and Engineering	B-STE-FSKTM-456	Silver
457	Rodziah Atan	Rodziah Atan, Ahmad Shahi Souzei and Md. Nasir Sulaiman	Fakulti Sains Komputer dan Teknologi Maklumat	Applying Hybrid Method for Uncertain Data for Decision Making in Dynamic Environment	Applied Research (B)	Science, Technology and Engineering	B-STE-FSKTM-457	No Medal
458	Mohamed Othman	Zukarnain Md. Ali, Mohd. Rushdan Muhd Said and Md. Nasir Sulaiman	Fakulti Sains Komputer dan Teknologi Maklumat	Parallel Computation for LUC Cryptosystems on Distributed Memory Multiprocessor Machine	Applied Research (B)	Science, Technology and Engineering	B-STE-FSKTM-458	Gold
459	Rusli Abdullah	Modi Alkulu, Mohd. Hasan Selamat and Hamidah Ibrahim	Fakulti Sains Komputer dan Teknologi Maklumat	Knowledge Management System Framework of Open Source Software Development with Collaborative Environment	Applied Research (B)	Science, Technology and Engineering	B-STE-FSKTM-459	No Medal
460	Zuriati Ahmad Zukarnain	Mohammad Reza Heidarinezhad, Mohamed Othman and Nur Izura Udzir	Fakulti Sains Komputer dan Teknologi Maklumat	A QoS-Support Mobility Management Approach in Wireless Network	Applied Research (B)	Science, Technology and Engineering	B-STE-FSKTM-460	Gold
461	Syahida Ahmad	Mohd Nordin Hj. Lajis, Daud Ahmad Israf Ali, Khozirah Shaari, Faridah Abas and Lee Ka Heng	Fakulti Bioteknologi dan Sains Biomolekul	Anti- Inflammatory Action of New Synthetic Compound, 2,6-Bis(2,5-Dimethoxybenzyliden) Cyclohexanone, upon Pro- Inflammatory Mediators Expression in Raw264.7 Cells	Applied Research (B)	Science, Technology and Engineering	B-STE-BIOTECH-461	No Medal

Bil.	Nama Penyelidik	Ahli Kumpulan Penyelidik	PTJ	Tajuk Penyelidikan	Kategori	Kluster	No. Rujukan	Medal
462	Raja Noor Zaliha Raja Abd Rahman	Norsyuhada Alias, Raja Noor Zaliha Raja Abd Rahman, Abu Bakar Salleh and Mahiran Basri	Fakulti Bioteknologi dan Sains Biomolekul	Expression of A Novel Cold-Adpted Prorase from Antarctic Psychrophilic Yeast	Applied Research (B)	Science, Technology and Engineering	B-STE-BIOTECH-462	Gold
463	Mohd Arif Bin Syed	Mohd Yunus Abd Shukur, Cheng Wei Nee, Foong Yao Ping and Ahmad Afif Abd Aziz	Fakulti Bioteknologi dan Sains Biomolekul	A Simple Method to Screen for Azo-Dye-Degrading Bacteria	Applied Research (B)	Science, Technology and Engineering	B-STE-BIOTECH-463	Silver
464	Mohd Ali Hassan	Meisam Tabatabaei, Mohd Rafein Zakaria, Raha Abdul Rahim, Andre-Denis G. Wright, Yoshihito Shiraj, Norhani Abdullah, Kenji Sakai, Shinya Ikeno, Masatsugu Mori, Nakamura Kazunori, Alawi Sulaiman 1 and Mohd Ali Hassan	Fakulti Bioteknologi dan Sains Biomolekul	PCR based DGGE and FISH Analysis of Methanogens in an Anaerobic Closed Digester Tank for Treating Palm Oil Mill Effluent	Applied Research (B)	Science, Technology and Engineering	B-STE-BIOTECH-464	Gold
465	Mohd Ali Hassan	Meisam Tabatabaei, Mohd Rafein Zakaria, Raha Abdul Rahim, Andre-Denis G. Wright, Yoshihito Shiraj, Norhani Abdullah, Kenji Sakai, Mehdi Shamsara and Mohd Ali Hassan	Fakulti Bioteknologi dan Sains Biomolekul	Method for Direct Isolated of High Yield, PCR-Compatible DNA from Environment Samples	Applied Research (B)	Science, Technology and Engineering	B-STE-BIOTECH-465	Gold
466	Raja Noor Zaliha Raja Abd Rahman	Mohd Shukuri Mohamad Ali, Raja Noor Zaliha Raja Abd Rahman, Mahiran Basri and Abu Bakar Salleh	Fakulti Bioteknologi dan Sains Biomolekul	A Novel Bifunctional Cold Active Lipase with Protease Activity Isolated from Antarctic Microorganism P112	Applied Research (B)	Science, Technology and Engineering	B-STE-BIOTECH-466	Gold
467	Mansor Hashim	Mansor Hashim and Ismayadi Ismail	Institut Teknologi Maju	Recycling and Utilisation of Millscale to Produce Commercial Magnetite and Ferrite	Applied Research (B)	Science, Technology and Engineering	B-STE-ITMA-467	Gold
468	Wan Ishak Wan Ismail	Mohd Hudzari Razali, Abd. Rahman Ramli, Md. Nasir Sulaiman and Mohd Haniff bin Harun	Institut Teknologi Maju	Technique on Simulation of Oil Palm Fruits Maturity Prediction	Applied Research (B)	Science, Technology and Engineering	B-STE-ITMA-468	Bronze
469	Azmi bin Jaafar	Najmeh Malekmohammadi and Farhad Hosseinzadeh Lotfi	Institut Penyelidikan Matematik	The Application of Data Envelopment Analysis (DEA) to Commercial Banks in Malaysia	Applied Research (B)	Science, Technology and Engineering	B-STE-INSPEM-469	No Medal

Bil.	Nama Penyelidik	Ahli Kumpulan Penyelidik	PTJ	Tajuk Penyelidikan	Kategori	Kluster	No. Rujukan	Medal
470	Mohamad Rushdan Md. Said	Davood Rezaei Pour, Kamel Ariffin Mohd Atan and Mohamed Othman	Institut Penyelidikan Matematik	The New Variable-Length Key Symmetric Cryptosystem	Applied Research (B)	Science, Technology and Engineering	B-STE-INSPEM-470	Silver
471	Ishterinayagy S. Krisnarajah	Gavin Gibson and Glenn Marion	Institut Penyelidikan Matematik	Novel Moment-Closure Approximations to Stochastic Epidemic Model and Application to Inference	Applied Research (B)	Science, Technology and Engineering	B-STE-INSPEM-471	Silver
472	Habshah Midi	Arezoo Bagheri and A.H.M.R. Imon	Institut Penyelidikan Matematik	Two-Step Robust Diagnostic Method for Identification of Multiple High Leverage Points	Applied Research (B)	Science, Technology and Engineering	B-STE-INSPEM-472	Silver
473	Habshah Midi	Hassan S. Uraibi and Bashar A. Talib	Institut Penyelidikan Matematik	Linear Regression Model Selection based on Robust Bootstrapping Technique	Applied Research (B)	Science, Technology and Engineering	B-STE-INSPEM-473	Silver
474	Habshah Midi	Md Sohel Rana and A.H.M.R. Imon	Institut Penyelidikan Matematik	A Robust Rescaled Moment Test For Normality in Regression	Applied Research (B)	Science, Technology and Engineering	B-STE-INSPEM-474	Silver
475	Mohamed Othman	Shukhrat I. Rakhimov, Mohamed Othman, Mohamed Suleiman and Jumat Sulaiman	Institut Penyelidikan Matematik	An Accelerated Over-Relaxation Quarter-Sweep Point Iterative Method: A Fast Poisson Solver	Applied Research (B)	Science, Technology and Engineering	B-STE-INSPEM-475	Gold
476	Paridah Md Tahir	AW Nor Hafizah, Khafizah Mat Nasib, Juliana Halip and MY Nor Yuziah	Institut Perhutanan Tropika dan Produk Hutan	Suitability of Kenaf as Raw Material for Particleboard	Applied Research (B)	Science, Technology and Engineering	B-STE-INTROP-476	Bronze
477	Paridah Md Tahir	Yeoh Beng Hoong, Luqman Chuah Abdullah and Koh Mok Poh	Institut Perhutanan Tropika dan Produk Hutan	MALDI – TOF Mass Spectrometry of Acacia mangium Polyflavonoid Tannins	Applied Research (B)	Science, Technology and Engineering	B-STE-INTROP-477	Silver

Bil.	Nama Penyelidik	Ahli Kumpulan Penyelidik	PTJ	Tajuk Penyelidikan	Kategori	Kluster	No. Rujukan	Medal
478	Jalauddin Harun	Mehdi Jonoobi, Jalaludin Harun and Kristiina Oksman	Institut Perhutanan Tropika dan Produk Hutan	Isolation of New Class of Materials to Produce Kenaf Nanocellulose and Nanocomposite	Applied Research (B)	Science, Technology and Engineering	B-STE-INTROP-478	Bronze
479	Luqman Chuah Abdullah	Min Min Aung, Chantara T.R., Emiliana Rose Jusoh, Wan Aizan Wan Abd Rahman and Mohd Halim Mohd S.	Institut Perhutanan Tropika dan Produk Hutan	Polyolefin Films Modified with Crude Palm Oil (Cpo) for Improved Mechanical Properties	Applied Research (B)	Science, Technology and Engineering	B-STE-INTROP-479	Gold
480	Murali Sambasivan	Zainal Abidin Mohamed dan Tamizarasu Nandan	Sekolah Pengajian Siswazah Pengurusan	Performance Measures and Metrics for e-Supply Chains	Applied Research (B)	Science, Technology and Engineering	B-STE-GSM-480	Bronze
481	Murali Sambasivan	Mohani Abdul and Yuzliani Yusop	Sekolah Pengajian Siswazah Pengurusan	Impact of Personal Qualities and Management Skills of Entrepreneurs on Venture Performance in Malaysia: Opportunity Recognition Skills as a Mediating Factor	Applied Research (B)	Science, Technology and Engineering	B-STE-GSM-481	No Medal
502	Kamaruzaman Jusoff	Mohd Zambri Rabab bin Mohamad Rabab	Fakulti Perhutanan	Airbone Hyperspectral Sensor for Search-and-Rescue (SAR) of Crashed and Missing Helicopters	Product / Innovation (C)	Science, Technology and Engineering	C-STE-FORR-502	Silver
503	Md Zuki Abu Bakar	Bahaa Fakhri Hussein	Fakulti Perubatan Veterinar	Porous Bioceramic Composition for Bone Repair	Product / Innovation (C)	Science, Technology and Engineering	C-STE-VET-503	Silver
504	Mohd Nizar Hamidon	Syed Alireza Mousavi, Rahman Wagiran and Roslina Mohd Sidek	Fakulti Kejuruteraan	434 MHz Surface Acoustic Wave Resonators for High Temperature Applications	Product / Innovation (C)	Science, Technology and Engineering	C-STE-ENG-504	Silver
505	Mohd Sapuan Salit	Mohd Israq Hafriz B Khamis, Edi Syams Zainudin and Riza Wirawan	Fakulti Kejuruteraan	Design and Fabrication of Chair from Banana Pseudo-stem Fibre Reinforced Polymer Composite	Product / Innovation (C)	Science, Technology and Engineering	C-STE-ENG-505	No Medal

Bil.	Nama Penyelidik	Ahli Kumpulan Penyelidik	PTJ	Tajuk Penyelidikan	Kategori	Kluster	No. Rujukan	Medal
506	Mohd Sapuan Salit	Ham Kai Wei, Mohd Zuhri Mohamed Yusoff and Riza Wirawan	Fakulti Kejuruteraan	Development of Computer Casing Using Oil Palm Fibre Reinforced Epoxy Composite	Product / Innovation (C)	Science, Technology and Engineering	C-STE-ENG-506	No Medal
507	Robiah Yunus	Rosnah Bt Haji Shamsudin, Chong Jiu Hui and Azhari	Fakulti Kejuruteraan	Jatropha Curcas L. Fruit Shelling Machine	Product / Innovation (C)	Science, Technology and Engineering	C-STE-ENG-507	Gold
508	Fakhru'l Razi Ahmadun	Mohd Ali Hassan, Mohd Amran Mohd Salleh, Dayang Radiah Awang Biak and Firoozeh Danafar	Fakulti Kejuruteraan	Improvement of Cellulase Immobilization Using Produced Carbon Nanotube in a Fluidized Bed Chemical Vapor Deposition	Product / Innovation (C)	Science, Technology and Engineering	C-STE-ENG-508	Gold
509	Yus Aniza Yusof	Chin Nyuk Ling, So'bah Ahmad, Rohaiza Abdullah and Che Rodiziah Md Nor	Fakulti Kejuruteraan	A Tableting Device for Malaysian Herbal Powders	Product / Innovation (C)	Science, Technology and Engineering	C-STE-ENG-509	Silver
510	Sabira Khatun	Fatemeh Mamdouhi and Javad Zarrin	Fakulti Kejuruteraan	A New Solution for V2V & V2X Communication Using Wireless Vehicular Adhoc Network (VANET) Technologies	Product / Innovation (C)	Science, Technology and Engineering	C-STE-ENG-510	Gold
511	Suraya Abdul Rashid	Thean Kean Sun and Mohd Amran b. Mohd Salleh and Fakhru'l-Razi b. Ahmadun	Fakulti Kejuruteraan	Impact Performance of Carbon Nanotube Coated Glass Fiber Reinforced Composites	Product / Innovation (C)	Science, Technology and Engineering	C-STE-ENG-511	Withdrawn
512	Ahmad Rodzi Mahmud	Mohammed Mustafa Al-Habshi and Helmi Sulhaidi Mohd Shafri	Fakulti Kejuruteraan	A Telegeoinformatic based Road Accident Geocoding System	Product / Innovation (C)	Science, Technology and Engineering	C-STE-ENG-512	Bronze
513	Bujang Kim Huat	Afshin Asadi, Thamer Ahmed Mohammed, Mohamed M. Hanafi and Nader Shariatmadari	Fakulti Kejuruteraan	Electrokinetik Improvement of Soft Clay & Organic Soils and Modeling of Their Mechanical Properties	Product / Innovation (C)	Science, Technology and Engineering	C-STE-ENG-513	Gold

Bil.	Nama Penyelidik	Ahli Kumpulan Penyelidik	PTJ	Tajuk Penyelidikan	Kategori	Kluster	No. Rujukan	Medal
514	Thamer Ahmed Mohammed	Bujang Kim Huat, Abang Abdullah Abang Ali and Adel Al-Raziqi	Fakulti Kejuruteraan	Precast Shell Footing for Industrialized Building System	Product / Innovation (C)	Science, Technology and Engineering	C-STE-ENG-514	No Medal
515	Robiah Yunus	Chan Gun Hean, Norhafizah Abdullah, Thomas Choong Shean Yaw and Sergey Spotar	Fakulti Kejuruteraan	Locally Fabricated Supercritical Fluid Extraction System for Production of Nanoparticles	Product/ Innovation (C)	Science, Technology and Engineering	C-STE-ENG-515	Gold
516	Mohd Khairol Anuar Mohd Ariffin	Faieza Abdul Aziz, Mohd. Sapuan Salit, B.T.Hang Tuah Baharudin and Eris Elliandy Supeni	Fakulti Kejuruteraan	Design and Fabrication of a Student Competition based Racing Car	Product/ Innovation (C)	Science, Technology and Engineering	C-STE-ENG-516	Bronze
517	Jamaloddin Noorzai	Farzad Hejazi, Mohd Saleh Jaafar, Waleed A. Thanoon and Abang Abdullah Abang Ali	Fakulti Kejuruteraan	Development of Active Variable Stiffness Control System to restrain Lateral Movement of Buildings Subjected to Strong Earthquake	Product/ Innovation (C)	Science, Technology and Engineering	C-STE-ENG-517	Silver
518	Jamaloddin Noorzai	Farzad Hejazi, Mohd Saleh Jaafar, Waleed A. Thanoon and Abang Abdullah Abang Ali	Fakulti Kejuruteraan	Development of Earthquake Energy Dissipation System for Reinforced Concrete Frames Buildings	Product/ Innovation (C)	Science, Technology and Engineering	C-STE-ENG-518	Bronze
519	Siti Mazlina Mustapa Kamal	Siti Nor Fadhilah Mahmud and Azelin Aiza Astan	Fakulti Kejuruteraan	Plant Starch/Oil Extracting Machine	Product/ Innovation (C)	Science, Technology and Engineering	C-STE-ENG-519	Silver
520	Mohd Amin Mohd Som	Abdulwahab Mujahed Hasan Al-Ansi, Abdul Halim Ghazali, Helmi Zulhaidi Mohd Shafri and Aimrun Wayayok	Fakulti Kejuruteraan	Water Resources Management (WARM) Model to Mitigate the Effects of Land Use Changes in a watershed	Product / Innovation (C)	Science, Technology and Engineering	C-STE-ENG-520	Bronze
521	Ahmad Rodzi Mahmud	Omar Mahmoud Suleiman Alkouri and Mohd Shafry Mohd Rahim	Fakulti Kejuruteraan	Spatiotemporal Data Visualization using Morphing Approach for Limestone activities in Kinta Valley	Product / Innovation (C)	Science, Technology and Engineering	C-STE-ENG-521	Bronze

Bil.	Nama Penyelidik	Ahli Kumpulan Penyelidik	PTJ	Tajuk Penyelidikan	Kategori	Kluster	No. Rujukan	Medal
522	Mohd. Saleh Jaafar	Abdul Rahman Al-Hozaimy, Abdul Aziz I. Al-Neghemish and Jamaloddin Noorzai	Fakulti Kejuruteraan	Use of Dune Sand as Partial Cement Replacement	Product / Innovation (C)	Science, Technology and Engineering	C-STE-ENG-522	Gold
523	Nor Azah Yusof	Norhisam Misron, Izril Mat Saat and Raja Nor Firdaus	Fakulti Sains	Portable Heavy Metal Detector	Product / Innovation (C)	Science, Technology and Engineering	C-STE-SCIENCE-523	Withdrawn
524	Son Radu	Chai Lay Ching and Chai Li Fen	Fakulti Sains dan Teknologi Makanan	Bugpower - Green Electricity from Microbes Using Single Chamber Membraneless Microbial Fuel Cell	Product/ Innovation (C)	Science, Technology and Engineering	C-STE-FOOD-524	Silver
525	Rahmita Wirza O.K. Rahmat	Yan Yon Fong, Swee Lee Ping, Wei Bey Fehn and Mohd. Zamrin Dimon	Fakulti Sains Komputer dan Teknologi Maklumat	A Voice Control Assisted Surgery System	Product/ Innovation (C)	Science, Technology and Engineering	C-STE-FSKTM-525	Silver
526	Mohd Ali Hassan	Azhari Samsu Baharuddin, Alawi Hj. Sulaiman, Lim Siong Hock, Mohd Najib Ahmad, Hairil Anuar Dzulkornain and Zubair Shafie	Fakulti Bioteknologi dan Sains Biomolekul	A Novel High Rate In-Vassel Composter for Oil Palm Biomass, Organic and Municipal Wastes	Product/ Innovation (C)	Science, Technology and Engineering	C-STE-BIOTECH-526	Gold
527	Mohd Ali Hassan	Yoshito Shirai, Umi Kalsom Md. Shah, Azhari Samsu Baharuddin, Alawi Hj. Sulaiman, Lim Siong Hock, Mohd Najib Ahmad and Chairil Anuar Dzulkornain	Fakulti Bioteknologi dan Sains Biomolekul	Appropriate Technology for Accelerated Composting of Oil Palm Biomass	Product / Innovation (C)	Science, Technology and Engineering	B-STE-BIOTECH-527	Gold
528	Saeid Pirasteh	Saeid Pirasteh, Iman Attarzadeh, Shattri Mansor and Amir Mahmoodzadeh	Institut Teknologi Maju	Producing a Software Program for Rapid Evaluation of Building and Earthquake Management	Product / Innovation (C)	Science, Technology and Engineering	C-STE-ITMA-528	Bronze
529	Barkawi Sahari	Rosnah Mohd Yusoff, Wong Shaw Voon, Mohd Fauzy Ahmad and Norwazan Abdul Rahim	Institut Teknologi Maju	Front Floor of Natural Gas Vehicle Platform	Product / Innovation (C)	Science, Technology and Engineering	C-STE-ITMA-529	Bronze

Bil.	Nama Penyelidik	Ahli Kumpulan Penyelidik	PTJ	Tajuk Penyelidikan	Kategori	Kluster	No. Rujukan	Medal
530	Noor Akma Ibrahim	Alireza Bahiraie, AKM Azhar and Ismail Mohd	Institut Penyelidikan Matematik	DGRSS: Dynamic Geometric Risk Space Software	Product / Innovation (C)	Science, Technology and Engineering	C-STE-INSPEM-530	Silver
531	Luqman Chuah Abdullah	Gregory F.L. Koay, Suimaya Z.A., Thomas S.Y. Choong, Salmiah A. and Robiah Y.	Institut Perhutanan Tropika dan Produk Hutan	Development of Parallel-Functioned Multiple Crystallizer in Uses of Habit and Morphology Study on the Palm-based 9,10-Dihydroxystearic Acid (DHSA) Crystals	Product / Innovation (C)	Science, Technology and Engineering	C-STE-INTROP-531	Gold