



## MEDAN PERTARUNGAN INOVASI PARA PENYELIDIK MUDA

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Dewan 2020, Kangar telah menjadi lokasi pertarungan inovasi para penyelidik muda dari pelbagai latar belakang akademik dalam mencari gelaran pemenang. Pertandingan yang berlangsung pada 8 April sehingga 10 April ini telah berjaya menarik sebanyak 500 penyertaan dari dalam dan luar negara. Sebanyak 14 buah universiti dari sekitar Asia telah mengambil bahagian dalam pertandingan i-ENVEX 2011 ini dan ia juga turut menarik penyertaan dari sekolah-sekolah menengah sekitar semenanjung Malaysia.

Pertandingan i-ENVEX 2011 kali ini bertemakan 'Engineering For Society' dan mempertandingkan sebanyak 7 kategori pertandingan iaitu; 'Agriculture & Environmental and Renewable Energy'; 'Automotive, Transportation & Industrial Design'; 'Biotechnology,

Health & Chemicals'; 'Building, Construction & Materials'; 'I.C.T, Multimedia & Telecommunications'; 'Manufacturing Process & Machines and Equipment'; 'Electricity & Electronic'. Pertandingan ini juga telah dipertandingkan mengikut 3 kategori utama, iaitu peringkat sekolah rendah; sekolah menengah dan juga universiti.

Majlis perasmian penutup i-ENVEX 2011 telah dihadiri oleh pengerusi MINDS iaitu, Prof. Emeritus Tan Sri Datuk Dr. Augustine S H Ong dan juga kehadiran Canselor UniMAP turut memeriahkan majlis penutup petang tersebut. Keputusan rasmi pertandingan boleh didapati di laman web i-ENVEX. Melihat pada kejayaan penganjuran pertandingan i-ENVEX 2011 pada kali ini, maka pada tahun hadapan i-ENVEX 2012 akan terus menggapai kejayaan penganjurannya.

### FINAL IPT (UniMAP) Award Winner

INVENTOR NAME	INVENTION/PRODUCT	MEDAL
Khairul Amali Hamzah, Khalid Azadi Mat Akhir, Ahmad Aizuddin Abd Aziz	Kapok Separating Machine	Gold
Awang Sabri Awang Omar	Nurse following hospital robot with special wheels and sensor integration	Gold
Muhammad Shafiq Ismail	A magnetic Suspended Self-Pitch Vertical Axis Wind Generator	Gold
Chan Ming Yeng Koay Seong Chun	Eco-Friendly Thermoplastic From Glutinous Rice Starch	Gold
Lee Kok Leong	Let's shop scooter	Gold
Satea Hikmat Al-Najjar	"SAPS" Innovative System for the Aerial Altitude Platform Sky Mesh Network in Rural and Disaster Areas	Silver
Lee Yeng Seng	Magnetized Super Green Bean	Silver
Nor Hidayah Bohari	Media optimization for bioprotein production from coconut dregs as a substrate by solid state fermentation.	Silver
Anis Ilani Binti Semsuddin	Performance Enhancement and Channel Modelling of CDMA Cellular System Employing Adaptive Frequency Hopping Spread Spectrum	Silver
Yeoh Zee How	Development of a Wind Generator System	Silver
Khor Kang Nan	Innovative Optimization of Ion Exchange Channel Waveguide For Stem Cell Manipulation	Silver
Leong Jing Yong	Anaerobic Bioreactor	Bronze
Solehatun Razali	"Sakura" Bottle Cup Opener Product of Aluminium-Stannum Alloy	Bronze
Nurhaslindah Binti Hamzah	Vision-Based Navigation of Mobile Robot with Obstacle Avoidance using Single Web-Camera	Bronze
Lim Chong Seng	Illegal Substance Detector: Using Bees as drug detection system	Bronze
Mundzir bin Hassan	Microcontroller Based Soil Temperature Sensor	Bronze
Nur Hazirah Mohd Ridzuan	A column study on removal of chemical oxygen demand (COD), ammonical nitrogen, sulphate using limestone and activated carbon	Bronze
Tan Kian Haw	Smart Office	Bronze
Nik Abdullah Rozali	Dr B mechanism of ergo chair	Bronze
Sharath Raj A/L Pubalan	Electromagnetic Levitator Design	Bronze
Nurul Syuhada Hj Baharudin	Contributions of sala mango peel powder as a new ingredient to physicochemical properties of biscuit (SMP powder).	Bronze

## FINAL UniMAP (Gold) Award Winner

INVENTOR NAME	INVENTION/PRODUCT	SCHOOL	MEDAL
Foo Shy Jer	Tesla turbine for green energy generation	School of Mechatronic Engineering	Gold
R M Abdul Luqman Bin R M Mohamed, Wong Yee Shian, Dr Ong Soon An	Natural Adsorbent	School of Environmental Engineering	Gold
Ho Seng Khee, Mohd Zamzuri Mohammad Zain, Mokhtar Bin Mat Salleh	A study and design of thermoacoustic air conditioning system.	School of Manufacturing Engineering	Gold
Nurul Suhada Binti Mohammad	Innovative Satay Grilled	School of Manufacturing Engineering	Gold
Ahmad Younus Qasim, Ryspek Usubamatov, Zuraidah M Zain	New impeller design wind turbine	School of Manufacturing Engineering	Gold
The Jenn Hooi	Max-Protect: A novel method to protect valuables during transportation	School of Mechatronic Engineering	Gold
Chong Yen Fook	Intelligent Mobile Robot Control Through Wrist EMG Signals	School of Mechatronic Engineering	Gold
Nor Saheila Ishak	Banana fibre as reinforcement for polymeric composite.	School of Bioprocess Engineering	Gold
Bong Soon Wei Supervisor : Dr Mukhzeer Mohamad Shahimin	Investigation of Sol-Gel Waveguide Evanescent Field for Mammalian Eukaryotic Cell Isolation	School of Microelectronic Engineering	Gold
Nur Afifah binti Ismail Supervisor : Pn. Norhayati binti Sabani	Design and Analysis Of Microneedle in Microfluidic Channel For Drug Delivery System	School of Microelectronic Engineering	Gold
Flora Somidin, Syazril Azwan Alias, Muhammad Anas Husnan	Robust Novel Green Composite Solder	School of Material Engineering	Gold
Tan Kok Chow, Murni Ahmad, Muhammad Anas Husnan	Low Cost Novel Green Composite Solder From Recycled Aluminium Beverage Can	School of Material Engineering	Gold
Muthana Yaseen Supervisor : Prof. Syed Alwi Aljunid Co-Supervisor : Dr. Hilal A. Fadhil,	Triple Play Services – Based on MDW OCDMA Codes Utilizing FPGA Platform	School of Computer and Communication Engineering	Gold
Muhammad Shazani Haziq Samsuddin	Easy onion peeler machine	School of Manufacturing Engineering	Gold
Mohd Hafiz Talib, Shafeeq Ahmad Shamim Ahmad, Jawadi Fawazi Jafri, Muhd Norazman Nik	Automated Umpire Chair	School of Manufacturing Engineering	Gold
Nurnadia binti Mohamad Khair	Development of Arm Device to Investigate Elbow Joint Motion	School of Mechatronic Engineering	Gold
Sarveshvaran A/L Suppiah Supervisor : Dr. Mukhzeer bin Mohamad Shahimin	Fabrication of Organic Light Emitting Diode (OLED) And Organic Light	School of Microelectronic Engineering	Gold
Mohd Azrul bin Ahmad Supervisor : Safizan binti Shaari	Emitting Transistor (OLET) Ultrasonic Motion Tracking System.	School of Microelectronic Engineering	Gold
Yeoh Terk Ming	Microcontroller Based PID Closed-Loop DC Motor Controller	School of Electrical System Engineering	Gold