

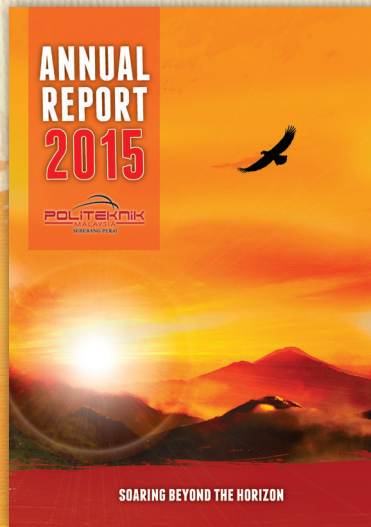
ANNUAL REPORT 2015


POLITEKNIK
MALAYSIA
SEBERANG PERAI



SOARING BEYOND THE HORIZON

CONCEPT PAGE



The sun rising from the eastern horizon, inching away from the silhouette of the hills to the sky so bright, represents a glorious sight of a bright future envisaged. In the brightness of the day the eagle spreads its powerful wings soaring high in the sky in search of its needs beyond the horizon.

The eagle symbolises strength and determination needed in pursue of victory and glory, even when there are obstacles and challenges along the way there is no summit too high to hike and no horizon too far to get to or to go beyond.

TEAMWORK

It's all very well to have courage and skill
 And it's fine to be counted a star,
 But the single deed with its touch of thrill
 Doesn't tell the man you are;
 For there's no lone hand in the game we play,
 We must work to a bigger scheme,
 And the thing that counts in the world today
 Is, How do you pull with the team?

They may sound your praise and call you great,
 They may single you out for fame,
 But you must work with your running mate
 Or you'll never win the game;
 Oh, never the work of life is done
 By the man with a selfish dream,
 For the battle is lost or the battle is won
 By the spirit of the team.

You may think it fine to be praised for skill,
 But a greater thing to do
 Is to set your mind and set your will
 On the goal that's just in view;
 It's helping your fellowman to score
 When his chances hopeless seem;
 Its forgetting self till the game is o're
 And fighting for the team

Edgar Albert Guest

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VISION

A leading institution in providing excellent education and training by 2015

MISSION

Producing distinctive human capital to steer the nation's economy in line with the Polytechnic Transformation Plan

CLIENT CHARTER

-  **Students' registration process is completed on their registration day**
-  **Final examination results are released two weeks after academic semester ends**
-  **Complainants are notified of the action status of their complaints two weeks after the complaints are made**
-  **All students undergoing the industrial training are supervised**

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MESSAGE FROM THE DIRECTOR



Good governance and good leadership are essence for an organisation to be successful. With a compelling vision a leader leads his organisation to trail the path of success. However, having a compelling vision alone is just inadequate to bring an organisation to the top (Coffey S, 2014). The visionary leader needs to communicate his vision until it is absorbed as a common goal, shared across the organisation. Once established, the vision needs to be translated into actions that produce the desired results. A crucial factor determining the impact of the actions is the engagement of the organisation members in a collective manner, in teams build on mutual respect and trust.

As an organisation envisioned to fulfil the role as a top training provider in Technical and Vocational Education and Training (TVET), the Seberang Perai Polytechnic (PSP) acculturates team work among its staff and students to make the most of what each and every one has to offer in terms of expertise, skills and experiences. Individual potentials and strengths are roped in to form a pool of talents, ready to be tapped to the fullest. It was with the enculturation of team work and the elimination of silo mentality that a positive and an enticing working and learning environment were created in the Seberang Perai Polytechnic. The togetherness amongst its staff and students had helped the institution to be at the forefront at par with other technical and vocational training providers in the region.

Several functional criteria had been fulfilled collectively from governance and management, Teaching and Learning; Faculty and Staff; Research and Development; Extension, Consultancy and Linkages to Resources and support to students, enabling the institution to gain outstanding recognition both at national and international levels in the year 2015.

Gaining the APACC specialised accreditation for TVET institutions from the Asia- Pacific Accreditation and Certification Council (APACC) proved the merits of team work in earning outstanding achievements. Several teams worked hand in hand making thorough preparations during the entire accreditation process, the teams complemented one another in many ways to fulfil the criteria and meet the standards of the accreditation. Eventually when PSP was awarded a prestigious gold medal in Manila on the 23 rd. June 2015, as a recognition for the standard and quality of TVET education and training it provided, the management, staff and students came to realise the outstanding achievement was made possible through team work, mutual respect and trust. A unified effort of giving the best was moved by the “our organisation mentality” and not by the “my department” mentality.

The team spirit ingrained also enabled the Seberang Perai Polytechnic to cooperate and collaborate with its other counterparts in TVET. PSP perceived its role as complementary to that of the other 32 Malaysian Polytechnics and hence the spirit of moving forward and soaring upwards together are upheld. The victory gained by PSP in the 20th FIRA Roboworld Cup and Congress held in Daejeon, South Korea from the 4th to 9th August 2015, in the MiroSot Category had contributed to the success of the Malaysian Polytechnics Robotics Team as the FIRA Roboworld Cup World Champion.

With an innovative mind set, the management, staff and students of PSP recorded several other achievements in the year 2015. The MEA (Malaysian Entrepreneur Award) won in November 2015, where PSP bagged in RM200 000 worth of grants, was another evidence of impactful team efforts in many entrepreneurial activities. Students of the polytechnic immersed themselves in activities that nurture them as young entrepreneurs. PSP campus was an incubator for young entrepreneurs to immerse themselves in activities that enhanced their entrepreneurial skills, giving them the experience of generating an income. The Bazaar Malam operating every Wednesday night on the grounds of PSP saw the young entrepreneurs earning up to as much as RM67,257.70. With continuous support given and the state-of-art facilities provided like the PSP Entrepreneurial Incubator, Youth Entrepreneur Station (YES), the Trigona Garden and a Beauty SPA all within the perimeters of the polytechnic the young talents were nurtured to be creative and innovative future entrepreneurs. With the real-life experience given to them PSP graduates are ready to venture and explore the job market as job creators and not merely as job seekers.

Upholding its motto, Promising Sustainable Progression, PSP marches on the path of success in unison, heeding Henry Ford’s notable quote “coming together is a beginning, keeping together is progress and working together is success.”

Honorary Major Hj. Zulkifli Bin Ariffin
Director



INTRODUCTION TO PSP

Politeknik Seberang Perai (PSP) is located in a fast developing area in Permatang Pauh. It is adjacent to Bandar Baru Perda and is about 5 km from Bukit Mertajam town, Penang. The polytechnic was established on the 1st of September 1998 and was officially opened on the 27th November 1999 by the then Prime Minister Dato' Seri Dr Mahathir Mohamad. It is the 10th polytechnic under the Department of Polytechnic and Community College Education, Ministry of Higher Education, established to produce semi-professionals who fulfil the aspirations of vision 2020.

There are four main academic departments offering courses at diploma level in the fields of Electrical Engineering, Information and Communication Technology, Mechanical Engineering and Commerce. Apart from these departments, there are two supporting departments, the Mathematics, Science and Computer Department and the General Studies Department.

The diploma programmes offered are Electronic Engineering (Computer), Electronic Engineering (Communication), Information and Communication Technology



(Programming), Information and Communication Technology (Networking), Mechanical Engineering, Mechanical Engineering (Plant), Mechanical Engineering (Manufacturing), Mechanical Engineering (Textile), Accountancy, Business Studies (Management), Logistics and Supply Chain Management and Islamic Banking.

The RM170 Million campus is built on a 100 acre site, equipped with modern infrastructure and educational facilities, the institution can accommodate nearly 5000 students.

PSP, a centre of learning engineering, technology and commerce has been awarded the MS ISO 9001: 2008 Certification and has won numerous excellence awards.



MANAGEMENT TEAM 2015

DIRECTOR | Honorary Major Hj. Zulkifli Bin Ariffin

DEPUTY DIRECTOR (Academic) | Ainiza Binti Amin

DEPUTY DIRECTOR (Academic & Support Services) | Hawariah Binti Kamaruddin

Public Relation Officer | Azahar Bin Yahya

Senior Executive Officer | Aminah Rahmah Hanum Binti Mohd Raus

HEAD OF DEPARTMENTS

Mechanical Engineering | Abdul Mutalib Bin Abdul Majid

Electrical Engineering | Hj Shohimi Bin Mat Isa

Information Technology & Communication | Atikah Binti Bakar

Commerce | Sarimah Binti Ismail

General Studies | Abdul Kamil Bin Abdul Aziz

Mathematics, Science & Computer | Mohamad Fadzil Bin Haji Basir Ahmad

Student Affairs | Habibollah Bin Padil

Sport, Co-Curriculum & Culture | Rukaida Binti Baharuddin

HEAD OF UNITS

Industrial Training & Liaison | Rosidah Binti Ahmad

Examination | Khairul Azhar Bin Ab. Aziz

Training & Continuing Education | Abu Bin Seman

Development & Maintenance | Saidin Bin Ahmad

Career & Psychology | Maslina Binti Bahtun

Quality Management | Mohamad Taufik Bin Abdul Rahman

Library | Zamzilah Binti Ismail

Halls of Residence | Mazliza Binti Razali

Information & Communication Technology | Adi Badiozaman Bin Ruhani

Instructional Development & Multimedia | Noazri bin Bakhari

Innovation & Research | Dr. Salmi Binti Che Meh

Innovative & Creative Circle | Aslina Binti Arbain

IM4U | Sulaiman Bin Abdullah



**DEPUTY DIRECTOR
(Academic)
Ainiza Binti Amin**

**DIRECTOR
Honorary Major Hj. Zulkifli Bin Ariffin**

**DEPUTY DIRECTOR
(Academic & Support Services)
Hawariah Binti Kamaruddin**





Dewan Besar Politeknik Pmtg Pauh

Yaya

AL-QUR'AN RECITAL : A JOINT PROGRAM WITH AN EMINENT INDONESIAN JUNIOR AL-HAFIZ

CHAPTER 01

ESTABLISHING REPUTATION THROUGH INTERNATIONAL RECOGNITION



CHAPTER 01



ESTABLISHING REPUTATION THROUGH INTERNATIONAL RECOGNITION

Internationalisation of higher education in Malaysia is seen as a means of improving and empowering higher education so that Malaysia can be the hub of excellence for higher education internationally by 2020. Internationalisation of polytechnics in Malaysia is the fifth thrust under National Higher Education Strategic Plan (Pelan Strategik Pengajian Tinggi Negara, PSPTN). Seberang Perai Polytechnic (PSP) had taken initiatives in internationalisation by establishing partnerships with other higher learning institutions especially in the Asian region such as Cambodia, Myanmar, Thailand, Indonesia, Japan and even India. PSP is committed to strengthen collaborative relationships with higher learning institutions in these countries in the areas of research, learning and teaching, and students and staff mobility, with a focus on quality over quantity. This was forged through technical partnerships, signing of Letters of Intent (LOI) and promotional visits and road-shows to institutions in these countries. Students of PSP also had the opportunity to perform on international stage by participating in English Language forums, world acclaimed robotic competitions and knowledge-sharing sessions. These events not only encourages internationalisation but also assists PSP in obtaining international recognition.

*“Talent wins games, but teamwork and intelligence wins championship”
Michael Jordan*



Seberang Perai Polytechnic made history by winning the prestigious national level MOHE Entrepreneurial Award (MEA) of the year. PSP beat two other Polytechnics and walked away with RM200, 000 worth of grants on 4th November 2015 at the Ministry of Higher Education (MOHE) Entrepreneurial Awards 2015 held at the Royale Chulan Hotel in Kuala Lumpur. The Honourable Dato’ Seri Idris Bin Jusoh, Minister of Higher Education presented the award to Honorary Major Haji Zulkifli Bin Ariffin accompanied by the Director of Polytechnic Education Department Datuk Mohlis bin Jaafar, Malaysia Polytechnic Entrepreneurship Centre (MPEC), PSP Management Team and the PSP Entrepreneur Unit.

The MEA acts as a catalyst to create a promising entrepreneurial ecosystem and to encourage holistic entrepreneurship development in Malaysian higher

learning institutions. PSP scored the highest marks and fulfilled several important criteria to secure the award. An intensive preparation of 2 years and hard work of all staff and students resulted in the conferment of the award. RM200, 000 worth of grants were allocated for entrepreneurship development in a Higher education institution. Honorary Major Haji Zulkifli Bin Ariffin, Director of Seberang Perai Polytechnic stated that MOHE Entrepreneurial Award gave added value in graduates’ employability and marketability.

MOHE Entrepreneurial Award had boosted the profiles of entrepreneurship among the higher education institutions across the country. The award winners became inspiring role models to other higher education institutions in Malaysia.





Students and graduates of the Seberang Perai Polytechnic were actively involved in online and offline businesses after undergoing a series of courses offered in PSP. A total of 41 students' owned businesses were successfully registered under the Companies Commission of Malaysia (SSM). Semester 5 students of Diploma in Business Management earned an extra income of RM67,257.70 by actively getting themselves involved in various programs organised by the Malaysian Polytechnic Entrepreneurship Centre (MPEC) in collaboration with the Entrepreneurship Unit and PSP Industry's Advisors. One of the programs was the Bazaar Malam@PSP held every Wednesday at the main entrance of PSP. The program served as a platform for students to introduce and market their innovative products. A total of 174 students and a significant number of the local community took part in the program.

The 'Bazaar' was officiated by the Honorary Major Haji Zulkifli Bin Ariffin, the Director of Seberang

Perai Polytechnic on 12th August 2015 while the closing ceremony was on 30th September 2015. PSP Director stressed that the program helped students to nurture entrepreneurial spirits in which would greatly help them after they graduated.

Besides actively engaged in business, students of Diploma in Business Management were also involved in the management of the Youth Entrepreneur Station (YES). PSP strives for 'Sijil Bersih, Selamat dan Sihat' (BeSS) which would be awarded by the Health Ministry by 2016. Full time students from various programs took part in the Entrepreneurial Incubator Program which helped to bring their business ideas to life. The YES Station is a central hub for on campus entrepreneurial activities. The PSP Entrepreneurial Incubator located in an actual physical space allows students' entrepreneur and their coaches to prepare to the real business world after students completed their studies in the polytechnic.



Cambodia Delegation Visit

A delegation from the Cambodian Labour and Vocational Department visited the Seberang Perai Polytechnic on 8th August 2015. The delegation comprised 30 officers from the Central Bureau of Regional Vocational and Ministry of Labour Department. The visit was led by Mr. Chhuor Vises. The objective of the visit was to establish a partnership to develop human capital in the technical and vocational sectors in Cambodia. These initiative would ensure that Malaysian and Cambodian students would be able to gain the skills and knowledge they need to be successful in the workforce.

Trang Technical College Visit



A Trang Technical College delegation visited the Seberang Perai Polytechnic on 3rd June 2015. The delegation was led by Mr Prason Yoo Thong, the Director of Trang Technical College. The aim of the visit was to establish a bilateral smart partnership that would result in students mobility between the two countries for employment opportunities.

The fifth thrust in the National Higher Education Strategic Plan (NHESP) calls on Malaysian education institutions to intensify internationalisation initiatives. The students exchange programme would be an excellent platform for PSP to widen

its academic horizon and to develop a multicultural diverse students learning community. International experience would also improve students' understanding of different cultures to become better global citizens. From a career perspective such an experience would be impactful in developing students besides equipping them with invaluable knowledge and skills.

Technical Partnership between PSP and Toyohashi University of Technology



Japan is well known for its electronics industry throughout the world. Thus, the opportunity to collaborate with Toyohashi University of Technology (TUT) a national engineering university located in Toyohashi, Aichi, Japan was highly welcomed. On 1st July 2015 a TUT delegation of five officials, Prof Dr Kozuki Masahiro (Executive Director), Dr Matsumoto Tsutomu (Vice Director of Center for International Exchange), Prof Jun Kyokone (Senior Director of Global Education), Miss Tomoko Furuhashi (Academic Affairs) and Miss Angeline Ooi (Administrative Officer) revisited PSP after their first visit in February 2014.

During the visit, a dialogue session was held to promote and reinforce cooperation, to exercise mutual exchange of information and technological expertise and also to have an exchange of lecturers between TUT and PSP. The delegation was also briefed



18 by the Director of Seberang Perai Polytechnic on the teaching and learning process in PSP with regards to the use of technology in teaching and learning. The mechanism on how to establish a mobility network among students and lecturers in both institutions was also discussed during the visit.

The collaboration between PSP and TUT kicked off with ten TUT lecturers from various engineering disciplines who spent five days as visiting lecturers in PSP for five days. The visit was used as a platform to share their knowledge and experience that they had during their training at Queen's College, University of New York. Lecturers and students from the Northern polytechnics, Sultan Abdul Halim Mu'adzam Shah (POLIMAS), Politeknik Tuanku Sultanah Bahiyah (PTSb) and Politeknik METRO Tasek Gelugor (PMTG) were also invited to attend the lectures in knowledge sharing sessions.

8th Malaysia Cup and FIRA Congress 2015



The 8th FIRA Malaysia Cup and FIRA Congress 2015 was held for five days starting from 10 to 15 May at the Polytechnic Ungku Omar, Ipoh. Seberang Perai Polytechnic (PSP) sent seven teams comprising 18 students and 5 lecturers to participate in the tournaments where they competed in four categories namely the SimuroSot, AndroSot, MiroSot and MyBot categories.

FIRA Malaysia Cup is a national competition which follows the international format as set out by FIRA.

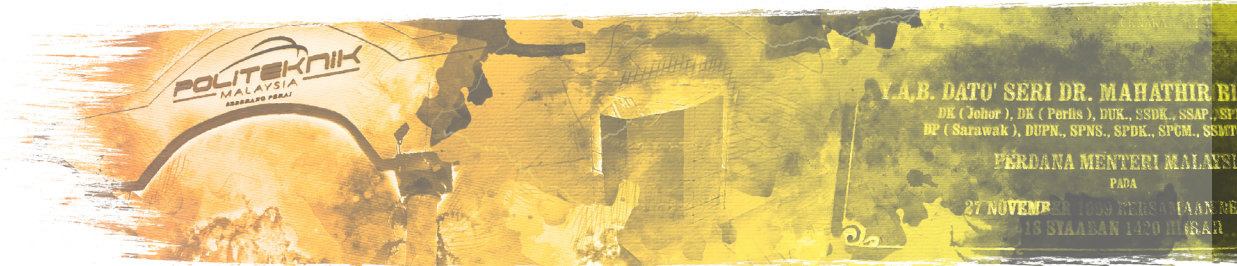
Department of Polytechnic (SRC) organized the FIRA Robot Soccer annually in an effort to enhance the students' and lecturers' interests and understanding in robotics development.

The PSP team grabbed one gold medal, one silver and one bronze in the Micro Robot World Cup Soccer Tournament (MiroSot) category Simulated Robot Soccer Tournament (SimuroSot) category and Android Soccer Tournament (AndroSot) category. In the final MiroSot category, PSP defeated Universiti Kebangsaan Malaysia (UKM) 4-1. Their success in the FIRA Congress 2015 Malaysia Cup and enabled the PSP team to represent Malaysia in the 20th Fira Roboworld Cup competition held in South Korea.

20th FIRA Roboworld Cup and Congress

The Seberang Perai Polytechnic (PSP) had again been crowned the World Champion in the MiroSot Category at the 20th FIRA Roboworld Cup and Congress held in Daejeon, South Korea. PSP successfully defended the title which it won in 2014. The competition was held from 4th to 9th August 2015. Ten countries from all over the world such as China, Taiwan, Canada, India, Brazil, Mexico and South Korea participated in the event. As an annual event, FIRA Roboworld Cup and Congress serves as a platform for robot soccer competitions and presentations on robotic technology advancements. The objectives of the championship were to explore technical developments and achievements in the field of robotics and to provide participants with a robot festival including technical presentations, robot soccer competitions and exhibitions. The PSP teams which comprised students from the Electrical Engineering Department (JKE) successfully bagged one gold medal in the Micro Robot Soccer Tournament (MiroSot) category and two silver medals in the Simulated Robot Soccer Tournament (SimuroSot) category.

PSP sent two teams to participate in the MiroSot and SimuroSot categories respectively. The participants





for MiroSot category comprised three students; Muhammad Farid bin Ramli, Mohamad Syafiq bin Mohd Rafi and Mohamad Akmal bin Zainodin with two accompanying lecturers Khairol Adha bin Ahmad and Abdul Rashid bin Alias. On the other hand, Abdul Rashid bin Abdul Razak a PSP student participated in the SimuroSot category. He was accompanied by a PSP lecturer, Amir bin Abu Bakar. 5 micro robots named 'iNOVA' were used for the competition in the MiroSot category.

The success of PSP teams had contributed to the crowning of the Malaysian Polytechnics Robotics Team (consisting of students from various polytechnics throughout the country) as the world champion in the 20th FIRA Roboworld Cup and Congress 2015. It was also an indication that Malaysian polytechnics were indeed soaring.



20 2nd Malaysian Polytechnic RELASIS Annual Camp 2015 (2nd MalPRAC' 15)



The 2nd Malaysian Polytechnic RELASIS Annual Camp 2015 (2nd MalPRAC' 15) was held at the Seberang Perai Polytechnic (PSP) from 6 to 10 June 2015. A total of 230 students from 10 polytechnics were involved in the 5 days 4 nights annual camp. The Department of Polytechnic Education (JPP), the People's Volunteer Corporation (RELA), the Police Department and students and staff from various polytechnics were involved in organizing the event.

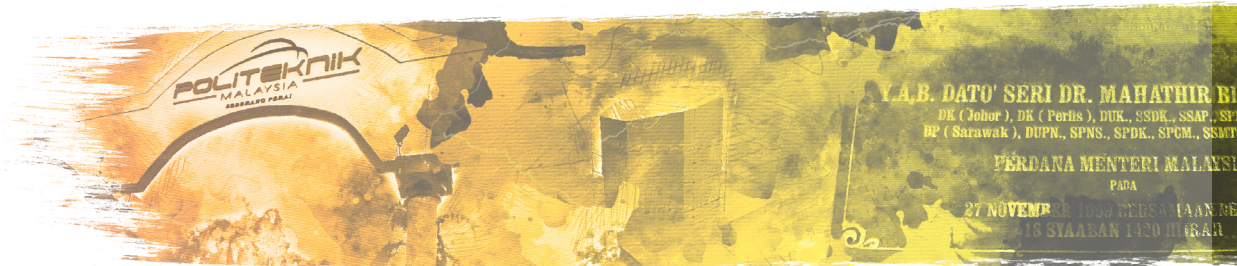
The opening ceremony was held at the Dewan Seri Mutiara (DSM), PSP on 6 June 2015 by Honorary Major Hj Zulkifli bin Ariffin, PSP's Director. The MalPRAC had brought the polytechnic students into a series of events and trainings such as marching, explorace, cultural night, *gotong-royong*, voluntary programs and religious talks.

The objectives of the camp were to produce disciplined and hardworking RELASIS members. It was also aimed to promote national integration to build a strong and prosperous nation.

Since 2014, the 2nd Malaysian Polytechnic RELASIS Annual Camp had trained numerous participants and encouraged positive involvement among them particularly in the field of voluntary work. MalPRAC is one of the new medium for polytechnics to produce students with leadership skills, patriotism and discipline and to enable them to function well in the society.

The 19th National Al-Quran Recital Assembly and Nasyid competition (MTQN) 2015 PEYATIM National Competition

Seberang Perai Polytechnic (PSP) has excellent infrastructure with well-equipped lecture halls and classrooms designed to accommodate and allow maximum possible interaction between teachers and students. Each main department has its own lecture hall equipped with LCD projectors, screens, whiteboards, wireless Internet facilities and good sound system which ensure lecturers have



everything they need to deliver highly engaging lessons. In addition, the halls have the capacity to host large academic or professional events and to accommodate up to 200 people.

These features had interest Malaysian Orphans Welfare Organization (PEYATIM) to choose PSP as the venue to host the 19th National Al-Quran Recital Assembly and Nasyid Competition (MTQN) 2015 PEYATIM National Competition which lasted four days starting from 30th May 2015 until 3rd June 2015. The event themed “Unity the Pulse of Transformation” was jointly organised by PSP, Penang Orphans Welfare Association and several non-government agencies (NGO).

2500 primary and secondary school children of PEYATIM orphanages from all over Malaysia including Sabah and Sarawak participated in the event. The objectives of the events were to provide a platform for the orphans to showcase their talents and to encourage the youths to love the Quran and to recite the Quran. All the participants and the accompanying officers stayed at the PSP’s hostel for the event.

There were 50 events competed in male and female categories namely Malay and English Language elocution, poem recital, azan recital, Quran memorisation (hifz), Quran recitation and nasyid. The event was officiated by Mejar Jeneral (B) Dato’ Seri Jamil Khir Baharom Minister in the Prime Minister’s Department. PEYATIM Annual General Meeting (AGM) was held in the Main Lecture Hall on the third day which was officiated by Puan Hajah Nancy Haji Shukri. Datuk Ustaz Kazim Elias Al-Hafiz was invited to speak in the forum which was held on the same day. All the participants and locals were invited to attend the forum which was also broadcasted live by RTM.

His Excellency The Governor of Penang, Tun Abdul Rahman Abbas who was accompanied by Toh Puan Dato’ Seri Utama Hajah Majimor binti Shariff presented the prizes on the last day of the event.

A large number of other officials also attended the ceremony. Major (K) Tn Hj Zulkifli Bin Ariffin, PSP Director cum Co-Director of the event, in his speech mentioned PSP would highly welcome possibilities to collaborate with PEYATIM in future events and gladly provide opportunities to the orphans to further their studies in PSP.

Wood Badge (Manikayu) and BPA Award for PSP’s Kumpulan Latihan Kelanasiswa Malaysia

Five lecturers of the Kumpulan Latihan Kelanasiswa Malaysia (KLKM), Seberang Perai Polytechnic (PSP) were awarded the Wood Badge (Manikayu) at the Baden Powell Award (BPA) and Manikayu (IPP) Ceremony for Public and Private Universities of Malaysia. The award ceremony took place from the 10th to 14th of November 2015 at UTM Skudai, Johor. The lecturers who were bestowed the Wood Badge were Mohd Razif b. Mustapha, Siti Nazurah bt. Hashim, Ruzman b. Mohamad, Norhayati bt. Abd Hamid and Mujahidin Ghazali.

In the same ceremony, eight PSP students were awarded the Baden Powell Award (BPA). The BPA is the highest achievable award for youth scouts in the KLKM or even scouts around the world. To be awarded the BPA, scouts must go through series of tests, which were the personality test, scouts skills test, leadership test and community service test.





NAZA AUTO DONATES FORZA TO PSP

CHAPTER 02

LEVERAGING SUCCESS THROUGH QUALITY ENHANCEMENT



CHAPTER 02



LEVERAGING SUCCESS THROUGH QUALITY ENHANCEMENT

Achieving success through quality enhancement is a powerful source for institutional advantage. Success can be achieved through various programmes conducted and attended to enhance quality. The Seberang Perai Polytechnic advocates its staff and students to participate and contribute in various quality enhancement programmes such as professional and continuous trainings, courses, seminars, workshops, conferences and competitions. Engaging in multi-tasking programmes and communicating with people encourage PSP staff and students to think creatively and critically, and ultimately make them better individuals that can contribute to the institution and the society. Thus success is achieved when PSP staff and students are able to use theoretical, practical knowledge and skills gained through various activities and apply them for institutional advantage.

Year 2015 saw an array of activities carried out by the institution to leverage success through quality enhancement. Many activities were held in and outside the polytechnic that involved participation from students and staff. Students and staff were encouraged to attend, participate and conduct various activities in order to enrich their theoretical, practical knowledge and skills.

“The achievements of an organization are the results of the combined effort of each individual”
Vince Lombardi

5S Certification for PSP



effort to involve students in implementing the 5S concept. The exposure to the 5S concept helped students to apply the best practices in their career.

Malaysian Productivity Corporation invited PSP to receive the 5S certification award from the Penang State Secretary, The Honourable Dato' Seri Farizan bin Darus on 25th May 2015 at the Productivity Hall, MPC during the Excellent Innovation Sharing Seminar and QE/5S Certification Award Ceremony.

The efficient implementation of 5S in PSP is in line with the efforts to strengthen the organisational culture of high performance and innovation among the public sector by providing a conducive environment, work culture and positive values for public servants.

Quality environment practices using the 5S concept as a tool towards achieving a systematic organization and a productive environment in a workplace was employed in PSP. Seberang Perai Polytechnic was awarded the 5S Certification by the Director of Malaysian Productivity Corporation (MPC) Northern Zone Cik Sarimah Misman on 22nd May 2015. PSP visibly demonstrated both progress and compliance towards the 5S concept. It was an important move as PSP housed a large workplace with many employees. PSP successfully displayed a healthy, comfortable and productive work environment. 5S certification covered for 17 sectors namely the administration office, lecturer's work space, lecture rooms, lecture halls, workshops, laboratory, store, clinic, students' hostel and its surroundings. The 5S concept was also practiced by the students. The Director of MPC applauded PSP's

UTP-HAX National Hacking Competition 2015

For two conservative years, the Information Technology and Communication Department of Seberang Perai Polytechnic took up the challenge to be the only representative of Malaysian Polytechnic competing against 42 teams from 18 Malaysian Public and Private Universities in the UTP-HAX National Hacking Competition 2015. The competition was held from 13 to 14 November 2015 at the Chancellery Complex, Universiti Teknologi PETRONAS



campus. The competition acted as the preliminary round for all Malaysian teams to advance to various Regional Asia and World Hacking Competitions. The UTP-HAX'15 is a multi-tier, team-based, hacking competition based on Cyberlympic Hacking Competition by EC-Council Foundation.

Nine students from the Hackids team, PSP-HAX team and Hackingvengers team of the Seberang Perai Polytechnic competed up to round five of



the competition by demonstrating high levels of teamwork, creativity and innovation. Participants undertook many attempts to penetrate networks and/or computer systems using hacking methods and techniques. Participants need to use creative methods to win the competition. They had to scan, test, hack and defend using their creative and constructive minds to secure a system. The competition allowed participants to be immersed in hands on task which fostered creativity, teamwork, and innovation. It enabled the students to test their ability to perform under pressure.

The competition had opened up a platform for future collaboration with Cyberhax Club from Universiti Teknologi PETRONAS to organize a workshop on CTF 2.0 which aimed at improving and developing critical thinking skills, problem solving skills and creativity among the Seberang Perai Polytechnic students.

Outstanding Performance in the Archery Tournament for Port Dickson Polytechnic Silver Jubilee Celebration

Seberang Perai Polytechnic (PSP) constantly supports the students' active participation in extracurricular activities especially in sports. On 4 October 2015, the PSP Archery Team won three gold medals, one silver medal and two bronze medals in the Archery Tournament organized by Port Dickson Polytechnic in conjunction with their Silver Jubilee celebration. The archery team comprised a team manager, Mr. Muhamad Noor bin Abu Hassan and seven team members who were Muhammad Aiman bin Amran, Mohd Razif bin Nayan, Syafiq Izzuan bin Rosli, Nur Atikah binti Mhd Bahar, Nurshahiera binti Saiful Azman, Nurul Ain Izaty binti Ahmad Azizi and Fatin Afifah binti Mohd Zaki. The team had put in a lot of strength, endurance and focus to perform well in the tournament. The archery tournament was participated by seven Malaysian Polytechnics, Malaysian Japanese Industrial Institute (MJII) and Sekolah Menengah Kebangsaan Kampung Baru Si Rusa (SMKKBSR). The tournament served as a great practice for PSP team to be ready for SUKIPT 2016.

Mathematics Programme

Improving the students' understanding of mathematics is always a priority for lecturers in the Mathematics, Science and Computer Department of the Seberang Perai Polytechnic. The programme was designed to enhance students' skills in solving the mathematical problems, making logical analysis, deductions and calculations within patterns and structures of mathematics. Students who scored less than 40% in their Test 1 in DBM1013 and DBM1023 were selected to join the programme to get better exposure on the topics of Complex Number, Numbering System, Geometry, Trigonometry and Algebra. In every meeting, lecturers guided the students by using clear and direct teaching techniques which allow the students to master the topics easily. Active participation of students





and lecturers had made learning mathematics a success where students learned to apply life skills by exploring the possibility of solving problems logically and being precise in thoughts and words. As a result, there was a considerable success of the programme when most of the students passed their mathematics courses during the final examinations.

Introduction to Project Development Workshop

One of the actions taken by the Information Technology and Communication Department (JTMK) to empower students' knowledge and skills for the FP521 course (Project Analysis and Development) was to organize a workshop on Introduction to Project Development. The workshop was held on 29 September 2015 with a collaboration from S2N SmartJobs & Services Company. The company sent in their Training Co-Ordinator officer. Puan Raja Norhuda binti Raja Adnan, was the speaker who

shared some industrial input with the students. A total of 138 students of Diploma in Information Technology (Programming) and Diploma in Information Technology (Networking) and eight JTMK lecturers took part in the workshop. During the workshop, students were exposed to the skills of being analytical and creative. In addition, leadership, teamwork and problem solving skills were also taught by the speaker.





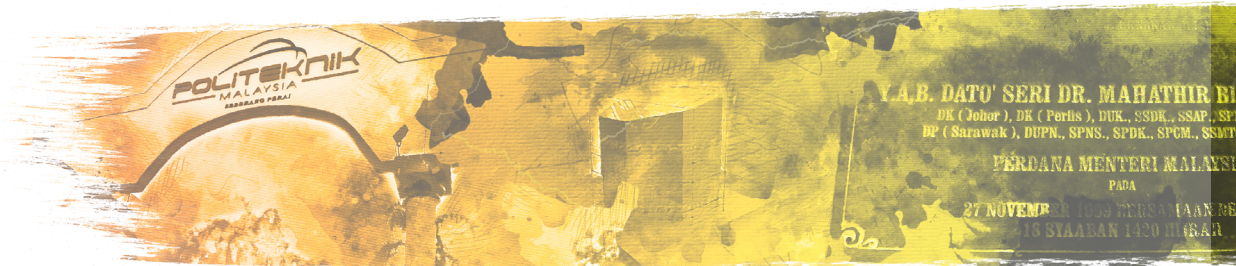
The English Language Unit, General Studies Department of Seberang Perai Polytechnic, had organized a program entitled “Communication Skills Workshop- British Council” from 1 to 2 December 2015 at the Seberang Perai Polytechnic. About 40 students from Semester 1 had participated in the program. The guest speakers were Mr Tom Grainger and Mr Mark Thompson from the British Council, Pulau Pinang. The objectives of the program were to give students the necessary exposure on communication skills, to improve pronunciation, listening skills, team working and social skills as well as to enrich students’ vocabularies and to increase students’ confidence level in Public Speaking.

During the two-day sessions, students were taught on the techniques and tips on effective public speaking and they had the opportunities to post questions to the Guest Speakers to get more information. At the end of the session, the students took part in a Public Speaking activity where they had to apply the skills learnt in a real practice of Public Speaking. Students gained valuable input and knowledge from the training. The English Language Unit looked forward to nurture talented

and confident speakers among students from the Seberang Perai Polytechnic.

Poli EnEP Penang Trip

On the 22 May 2015, the English Language Unit of Seberang Perai Polytechnic had organized a Poli EnEP (English Enhancement Programme) Penang trip which aimed to improve English Language skills among polytechnic students through fun filled outdoor activities. During the trip, participants learned to work together as a team, utilizing available resources and focusing on achieving the same shared goal. The programme helped to enhance the ability to speak, read, write and listen in English among polytechnic students. Some of the objectives of the trip were to increase the usage of English inside and outside of classroom context, to increase the confidence level among students to use English as the medium of communication, to boost confidence among students and to enhance the use of ICT in learning English. A total of 24 students participated in the Poli EnEP Penang Trip.



Students were brought to the 3D Art Museum as their first stop where they were assigned an individual/pair task to be completed. They were asked to take photos of themselves in the museum and write caption based on their creativity using English language. The second task was to prepare a video documentary on Penang town according to the theme assigned. The activity was done in groups and they had to work well to complete the assignment. The objectives of the trip were successfully achieved. The trip had provided a good opportunity for the students to enhance their skills in English besides strengthening the bond between them. The students had better confidence level in communicating English outside the classroom context.

Debate Training 2015

The English Language Unit, General Studies Department of Seberang Perai Polytechnic, had organized a Debate Training 2015 on 19 September and 3 October 2015, at the Commerce Lecture Hall, Seberang Perai Polytechnic. About 80 students from Semester 1 had participated in this Debate Training. The guest speaker was Mr Samuel Ravikumar a/l Samuel Jesudas from Sekolah Menengah Jenis Kebangsaan Jit Sin, Bukit Mertajam, Pulau Pinang.



He was a National Level Debate Trainer as well as a Senior Teacher and MUET Examiner. The Debate Training was held to enhance the English learning amongst polytechnic students as well as to train the students to excel well in a debate competition.

Debate techniques which focused on getting across meaning with body, as well as words were able to encourage creativity of thought and reinforce understanding of language as a way to communicate meaning. Nonetheless, activity such as a debate was expected to engender intrinsic motivation amongst the students and also to be a platform for them to utilize the language more effectively. In tandem with the government's aspiration to produce more English proficient students, the debate training was expected to be a catalyst in uplifting the standard of English amongst polytechnic students.

As a result, students gained valuable input and knowledge from the training. The English Language Unit would continue to nurture future Debaters from Seberang Perai Polytechnic.

Street Art Challenge

Many events and activities had been organized by the English Language Unit, PSP to enhance English Language proficiency. One of such programs organised by the English Language Unit was the Street Art Challenge. The one-day programme held on the 2nd March 2015, saw students doing challenging activities around Penang island in-line with the theme "Experience English".



Students started with beach cleaning in Teluk Bahang before they departed for their main activity which was the Street Art Challenge. The activity required students to roam around historical and places of interest around Penang. The students were



30 presented with tasks which required them to solve various puzzles, reading maps, communicating English with foreigners and finding mural arts based on clues given.

This challenge had provided opportunities for Semester One DUE1012 students to communicate in English confidently and a platform for the students to gain knowledge while having fun.

Go Green Campaign at Penang National Park



Polytechnic Education Department came up with POLYGreen blueprint to encourage a green culture in the Malaysian polytechnics nationwide. The Polytechnic Education Department vision was to produce green-collar workers in line with the Polytechnic Transformation Plan and the country's mission to become a high income developed nation that achieved a low carbon level by 2020. It was the aspiration of the Polytechnic Education Department to have activities conducted in a sustainable manner and each polytechnic would be the catalyst for the local community to achieve sustainable

development. The greening of Technical Vocational Education and Training (TVET) would consolidate a green development in teaching and learning in five dimensions, namely creating a green campus, a green curriculum, a green community, conducting green researches and cultivating a green culture.

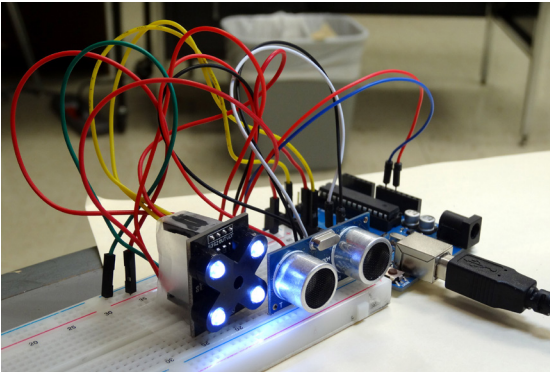
The Seberang Perai Polytechnic had lined up several programmes in line with Polytechnic Education Department POLYGreen blueprint. One of the programmes was the Gotong Royong activities conducted by 29 lecturers from Mathematics,

Science & Computer Department. The two Gotong-Royong activities were conducted at Penang National Park and at Kampung Teluk Awak, Teluk Bahang. The activities conducted helped polytechnic staff to share the knowledge and experience in creating awareness by practicing sustainable living. Polytechnic staff shared information on green living and also created green awareness by sharing information and expertise on sustainable development. They also had environmental conservations with the local communities and non-governmental bodies.



The Penang National Park Gotong Royong activity was conducted on 16 June 2015 and another activity was held on the beach of Kampung Teluk Awak, Teluk Bahang on 24 November 2015. In both programmes, the JMSK staff were involved in cleaning up the areas, putting up signage and repairing damaged infrastructures. Local community and the City Council of Penang joined hands in cleaning up and beautifying the areas.

Arduino Workshop



To prepare Seberang Perai Polytechnic students for the first 2016 Annual Cisco Networking Academy Conference and IOE Hackathon Challenge at Adya Hotel, Langkawi, from 26 to 28 January 2016, the ICT department and Cisco Networking Academy had organised the Arduino Workshop. The one day workshop was held on 19 December 2015 at UniKL. The workshop involved 5 DNS (Diploma in Networking) students.

The ICT department invited Safyzan bin Salim and Ezra bin Ismail; instructors from Cisco Networking Academy to demonstrate and apply the Arduino hardware and software programmes. During the workshop, students were introduced to the Arduino technology. Students also learned how to develop projects using Arduino and Android applications. The programme ended with simulation activities to foster critical and problem solving skills among the students.

Arduino is an open-source electronics platform based on easy-to-use hardware and software. Arduino designs and manufactures inexpensive and easy microcontroller-based kits for building digital devices and interactive objects that can sense and control objects in the physical world. Arduino board senses the environment by receiving inputs from many sensors, and affects its surroundings by controlling lights, motors, and other actuators

NAZA AUTO Donates FORZA to Politeknik Seberang Perai

NAZA Automobile, the third national car maker donated a NAZA FORZA car to Politeknik Seberang Perai (PSP) in early January 2015. The car placed at the Mechanical Engineering Department, was used as a realia in the teaching and learning process. Honorary Major Haji Zulkifli bin Arrifin, the Director of PSP received the mock key on behalf of PSP. The car was presented by the Tan Sri SM Nasimuddin Foundation. The foundation which focused on the importance of education was established on 16 March 2011. The main vision of the foundation was to provide financial and schooling assistance to welfare bodies. The donation of the car was one of NAZA Malaysia's corporate social responsibility (CSR) initiatives in Malaysian Institutions of Higher Learning.

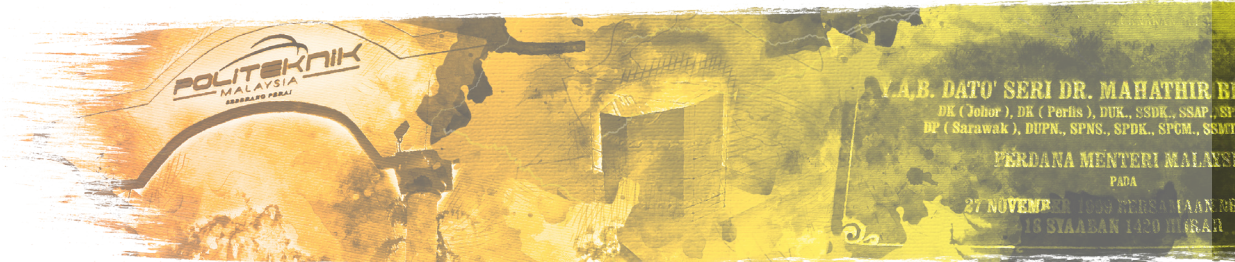
The car which was a 1000cc model FORZA was utilised by general and manufacturing Mechanical Engineering lecturers and students. Students were exposed to new knowledge and were given practical experience in understanding the mechanical components of the car and the engine used.





1Malaysia for Youth or 1M4U is one of the moves by the Malaysian government to encourage youth participation in community activities in Malaysia. The Youths can play an important role by being volunteers to serve local communities, intended social groups and in the long run contribute towards the development of the nation. The main objectives of IM4U is to develop the spirit of volunteerism among the youths and also to create a generation with a concern for the country. 1M4U in PSP is a unit entrusted to link PSP with communities through the spirit of volunteerism. The members of 1M4U in PSP carried out community based projects that strengthened the ties between PSP and communities especially in the state of Penang. The unit took the initiatives to collaborate with the state and federal agencies to carry out voluntary activities. PSP 1M4U also uses the National Blue Ocean Strategy to engage in various government agencies activities. The collaborative efforts with various agencies and other learning institutions in doing various programmes

in 2015, had made PSP well recognised among the local communities in Penang. The IM4U was one of the best avenues for PSP students to give back to the community. Various activities that engaged PSP students with communities were arranged to enable students to interact with the communities and render their assistance. The following were some of the activities carried out in the year 2015.



Date	Programme	Collaboration with	Venue	No of participants
7 March	PSP Community Service	JKKK Sungai Rambai	Kampung Sungai Rambai, Relau, Bandar Baharu, Kedah	280 PSP students
17 March	Community Centre Rehabilitation Work	Jalan Tun Hussien Residents' Association	Jalan Tun Hussien Onn, Seberang Jaya	50 PSP students
12 August	Blood Donation Campaign	Penang General Hospital	Dewan Seri Mutiara, PSP	400 PSP students
12 Sept.	Volunteer Malaysia 2015	Penang Bumiputera Development Council, Ministry of Tourism	Kampung Kuala Muda, Penaga	2000 volunteers from various institutions of higher learning
13 Sept.	Public Wellness	Penang Bumiputera Development Council	Masjid Al-Rashid, Permatang Sungai Dua, Sungai Dua	54 PSP students
16 Sept.	1 SRN 1 Community 1 Love	Department of National Integration, Rukun Negara Sekretariat and Qariah Masjid Jamek Kampung Pelet	Masjid Jamek, Kampung Pelek, Penanti	250 PSP and local participants
16 Sept.	Public Wellness Program	Penang Bumiputera Development Council, Teluk Bahang Residents' Association	Pantai Bangsal Rawai, Teluk Bahang	450 including 40 PSP students
19 Sept.	Closed Paintball Championship	GPMS	Sports Complex PSP	100 PSP students
20 Sept.	Public Wellness	Penang Bumiputera Development Council	Kampung Binjai, P. Pinang	380 including 50 PSP students
14 Nov.	Public Wellness	Penang Bumiputera Development Council	Taman Seruling Emas, Sungai Bakap	300 including 50 PSP students
6 Dec.	Health Education Workshop	Penang State Youth Council, GiatMara and Ministry of Health	USM Engineering Campus, Trans Krian	300 including 100 PSP students
31 Dec.	Post Flood Assistance	KEMAS, UMNO, Penang State Youth Council	Rantau Panjang, Kuala Krai, Tanah Merah, Macahang, Tumpat and Kota Bharu.	100 PSP students



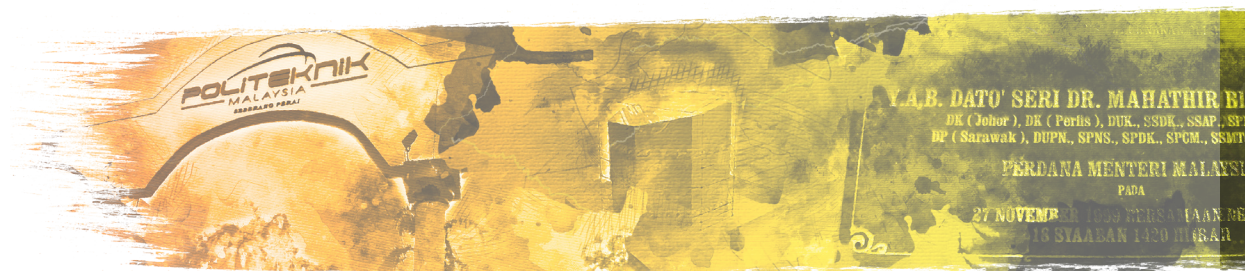
34 “A Fresh Eye on Logistics” Seminar

As Logistics and Supply Chain is a niche area of Politeknik Seberang Perai (PSP), various initiatives were taken to further equip the students with practical and theoretical knowledge in the . Programs such as seminars, visits and talks were held to provide students with relevant information related to the field of Logistics and Supply Chain. One such seminar that took place in PSP was the seminar entitled “A Fresh Eye on Logistics”. The guest speaker was Dr. Sharon Tong Bee Eng from PKT Logistics Group Sdn Bhd. The initiative came under the collaboration between PSP and PKT Logistics. The objective of the seminar was to expose students to innovative ideas in the field of logistics. Students learned about green technology in the field of logistics. PTK proposed the use of natural light to normal electrical-based lights in warehouse to reduce the electricity bills and to enhance the concept of green technology. Students also learned how to use the Global Positioning System (GPS) to track the movements of cargoes or vehicles. The seminar was an eye opener for students and lecturers on how the concept of green technology could be absorbed in the field of logistics.

Visiting Industry Scholars Programme

The Visiting Industry Scholar’s Programme (VISP) is a collaboration effort between Politeknik Seberang Perai and industries. In this opportunity, representative or experts from industries are invited to give talks to students based on their field of expertise and also engage in joint research initiatives with PSP staff. This smart partnership is pertinent in bringing in the latest knowledge to the campus, as industry players are well equipped with the latest information pertaining to the industry needs. PSP also had a long list of visiting industry scholars who visited PSP upon invitation by PSP lecturers. All the departments in PSP were encouraged to have programmes that foster the industry-PSP relationship as it is one of the polytechnic’s key performance indicator. The following were some of the programmes under the VISP:

Programme	Date	Organiser	Collaborating Industry
A Talk on Industry Programming	4 Aug.	Department of Electrical Engineering	Motorola Solutions
Equip Yourself for Employability	26 Aug.	Department of Mechanical Engineering and Department of Information Technology and Communication	Venture Electronics Services
Occupational Safety and Health	8 Sept.	Department of Electrical Engineering and Department of Commerce	Bandar Baru Perda Fire Station Mujahiddin Ghazali (MA)
Business Plan Workshop	29 Sept.	Department of Electrical Engineering	Bank Persatuan Kepala Batas



CHAPTER 03

**LIBERALISING THINKING THROUGH
INVENTIONS AND INNOVATIONS.**



CHAPTER 03



LIBERALISING THINKING THROUGH INVENTIONS AND INNOVATIONS.

Inventions and Innovations are alive and thriving at Seberang Perai Polytechnic. PSP has taken proactive steps to foster more to enhance creativity in solving current and future challenges through innovations and inventions. Staff were not only involved with the management, administrative, teaching and facilitating tasks, but also actively engaged in inventions and innovations. Staff and students successfully exploited new ideas and made changes to improve administrative duties and scholarly performance. The developments of new programs aimed at supporting inventions and innovations among the Seberang Perai Polytechnic staff and students. Staff and students were consistently discovering and working on novel inventions and innovations for significant societal impact. Plenty of events were organized to give the staff and students the opportunity to showcase their ground-breaking innovations and to increase the impact of their researches. PSP continues to foster partnerships with the industries and communities to spark creative and innovative ideas that lead to fascinating new innovations.

“Alone we can do so little; together we can do so much”
Helen Keller



Realising the importance of TVET, Seberang Perai Polytechnic (PSP) hosted the National Symposium on TVET Graduates Employability (NSTGE 2015) on 7 December 2015. The grand event was held at the Sunway Carnival Convention Centre, Seberang Jaya, Penang and the event attracted more than 250 participants from Malaysian polytechnics, community colleges and the industries. The theme of the event was 'Powering TVET Graduates Towards Sustainable Employability.'

The symposium was aimed at creating awareness on the importance of equipping graduates with relevant skills that could make them more employable. It provided a platform for the educators and industries players to share and present their ideas and research findings. A number of keynote papers on employability skills development were

presented. The event was also attended by Directors of Malaysian Polytechnics, Directors of Northern Region Vocational Colleges, Head of Departments and several established industries and government agencies such as the Construction Labour Exchange Centre Berhad (CLAB), PKT Logistics Berhad, Senior officers from TalentCorp Malaysia, the Northern Corridor Implementation Agency (NCIA) and Job Malaysia. Among the presenters were Dato Prof. Dr. Michael Tio, the Chief Executive Officer from PKT Logistics Berhad, Tuan Razali Tamby Chik, Executive of CLAB and Pn.Siti Jariah binti Hashim from NCIA. The event was officiated by Datuk Haji Mohlis bin Jaafar, the Director General of Department of Polytechnic Education, Ministry of Higher Education Malaysia. The symposium was a success as participants also utilised the platform to engage in networking activities. The symposium created an



awareness on the importance of TVET in Malaysia as it contribute greatly to National Key Economic Areas (NKEA) in the field of engineering, technology, commerce and services.

CIDOS Inspiring Learning Awards 2015 (EDOLA)



Four lecturers and two students of Seberang Perai Polytechnic (PSP) were among the winners for the CIDOS Inspiring Learning Awards 2015 (EDOLA). The EDOLA competition which was held from March to October 2015 was an open competition for both staff and students of Malaysian polytechnics. Three categories were competed, eMicro Content, SCORM KING and CIDOS Doodles Competition.

The eMicro Content competition was opened for all polytechnic students and the requirement was to create an educational video on teaching and learning. The SCORM KING competition was an avenue for competitors to create SCORM videos in 5 fields, they were General Studies, Mathematics & Science, Engineering, Non-Engineering, Commerce

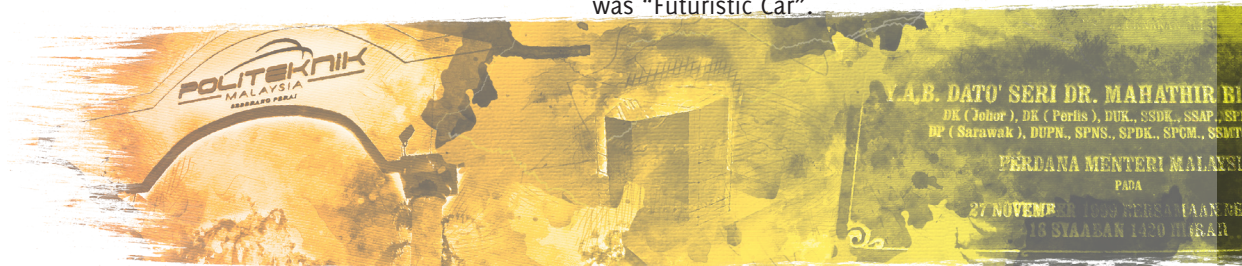
and Information Technology. The final category was CIDOS Doodles Competition which aimed to create an artistic logo of CIDOS to be displayed in the LMS CIDOS website.

PSP emerged as the winner in the Scorm King Competition. Ms Lim Bee Ling, Ms Liang Yuan Shin and Ms Tan Siew Hua received trophies, certificates and cash worth RM2500 for their Scorm titled "Logic Gates". Meanwhile, En. Ku Adnan b. Ku Hassan was selected as the top 10 winner for the CIDOS Doodles competition. For students category, Muhammad Norsham b. Hamdan from Information and Communication Technology Department won the CIDOS Users Award, while a Commerce student, Mohd Faris b. Mohamad Yan won the CIDOS Choice (Emc2) Award. The winners were celebrated in a CIDOS Inspiring Learning Awards 2015 Night closing ceremony held at Hotel Equatorial Melaka which was officiated by Datuk Mary Yap Kain Ching, Deputy Minister of Higher Education Department.

The aim of the competition was to form an innovative and creative e-learning community among staff and students of polytechnics and at the same time, to transform the teaching and learning methods in Malaysian Polytechnics. The competition managed to promote the CIDOS LMS website as the platform for interaction to support the teaching and learning process via the internet among lecturers and students of polytechnics.

Polytechnic Proton Innovation Competition (PIPPo)

Polytechnic Proton Innovation Competition (PIPPo) 2015 was held for five days from 12 to 16 August 2015 in the compound of the Ministry of Education (MOE) Precinct 5 Putrajaya. The event took place in conjunction with the Malaysia Higher Education Week (HEWM) 2015. The aim of the competition was to generate students' and lecturers' creative and innovative ideas especially in automotive engineering designing. The theme for 2015 PIPPO was "Futuristic Car".



The Seberang Perai Polytechnic (PSP) team comprised 10 lecturers and 18 students from the Mechanical Engineering Department. The team successfully transformed the Proton Persona G-Tec by upgrading the safety system to android, aerodynamic exterior design and utilising kenaf in the interior of the car. The competition encouraged participants to come up with new, creative and futuristic ideas besides encouraging an innovative culture amongst PSP students and lecturers.

National Team Excellence Convention (ICC) 2015



The National Team Excellence Convention (ICC) 2015 was held for three days from 2 to 4 November 2015 at the Sunway Pyramid Convention Centre, Sunway Hotel Resort and SPA. The convention was organised by the Malaysia Productivity Corporation (MPC). The objectives of the convention were to promote and sustain Innovative and Creative Circle (ICC) activities and to provide a platform for the participants to learn the best practices. The convention was participated by approximately 2000 participants from the private and government sectors.

FM6 team from PSP made the institution proud when they received a gold award for an impactful project called SC system. The team consisted of eight members, led by Pazilah binti Darus and facilitated by Wan Nur Wahidah binti Hashim. Earlier

the team had also been awarded Gold in the Team Excellence Convention (ICC) 2015 which was held at Bayview Hotel, Langkawi Island, Kedah from 19 to 20 August 2015. The SC system used data or image from MyCard to create a student's card. The image from the MyCard can be cropped to detect face and upper body simultaneously. The SC system was connected to the existing SPMP database, thus students' cards can be instantly printed out. The main objective of the project was to accelerate the process of obtaining a student card during the registration. The competition served as a great platform for PSP team to showcase and present their innovative and creative project and to inculcate the culture of knowledge sharing.

2nd Innovative and Creative Exhibition 2015 (ICEx 2015/2)

ICEx 2015/2 – the 2nd Innovative and Creative Exhibition 2015 provided opportunities for semester three students to communicate in English confidently using the language focus learnt in DUE3012 Communicative Language 2. It was also a platform to encourage students' inventions and innovations as an extension of what they had learnt in the classrooms. Aimed at developing critical thinking skills, students were encouraged to be innovative and creative. Students encouraged to respond verbally to any questions asked by the judges during their showcase. The exhibition also provided a platform for students to increase their confidence level when conversing in English. With the theme 'Empowering Students through Innovation' ICEx 2015/2 took place on 30th September 2015. Thirty-two groups from the Mechanical Engineering Department, Information and Communication Technology Department participated in the exhibition. Students were given the opportunities to exhibit, present and promote their projects using appropriate language with the integration of technical terms and knowledge acquired in DUE3012 course.



Malaysian Polytechnic Technology and Creative Discovery (TechCreavery) 2015



Realising the importance of technology in daily life, Seberang Perai Polytechnic (PSP) had organised the Malaysian Polytechnic Technology and Creative Discovery (TechCreavery) from 23 to 25 March 2015.

In line with the theme 'Inspiring the Next Generation of Technologist', the objectives of the program were to provide an opportunity for the students to interact, to increase their self-confidence and to develop motivation and creativity in the field of ICT and in their careers. It also aimed to improve students' competency level in ICT environment, develop a networking career and share knowledge in the ICT world. The program also served as a platform to find polytechnic representatives for the national and international competitions such as Myskill and NetRider. A total of 450 Malaysian Polytechnic students participated in the program.

The participants gained a lot of new information through the iM4U and industries workshops, briefing from PSP Students' Representative Council (MPP), ICT skills competition, seminars and project exhibitions.

Among the industries which contributed towards the success of the program were MDEC, CISCO, TeraLogic Solutions Sdn. Bhd., HUAWEI, ORACLE Academy, LinkedIn and iM4U. The main highlight of the program was the signing of Notes of Understanding (NOU) between PSP and HUAWEI Technologies. There was also an NOU signing between Malaysian Education Department and AMTIS Solution Sdn. Bhd. The closing ceremony of the program was officiated by Tn. Hj. Ghaus bin Abdul Kadir, Senior Director (Academic) from the Polytechnic Education Department.



CHAPTER 04

ENRICHING EXPERIENCE THROUGH COOPERATION AND COLLABORATION



CHAPTER 04



ENRICHING EXPERIENCE THROUGH COOPERATION AND COLLABORATION

The twenty-first century learning skills require collaboration, cooperation, communication, problem solving, and critical thinking skills that are expected of polytechnic graduates. Academic achievements are not the primary criteria for getting a job, because most employers are looking for good soft skills among the technical students. Through multiple collaborations and cooperation efforts made with the industrial experts and international academic institutions such as from Indonesia, Japan and India, the Seberang Perai Polytechnic is certain to produce good quality graduates who can work collaboratively in expressing their thoughts, discussing and challenging ideas with others, and working together towards a group solution to a given problem. Consequently, more opportunities opened up and more engagements between academics and practitioners became more active either by collaborating in joint research projects or in sharing expertise, knowledge and skills. The collaborations provide opportunities for the staff and students to participate actively in activities, workshops, trainings, projects, seminars, research publications and lecturers/students transfer programme which would eventually enrich the experiences and improve their soft skills to be the world-class graduates.

“Lots of people want to ride with you in the limo, but what you want is someone who will take the bus with you when the limo breaks down.”
Oprah Winfrey



On 4th February 2015, PSP created a new milestone by having a Letter of Intent (LOI) signed between the polytechnic and six local industrial companies. The companies were Al-Haddad Marketing, Great Vision, First Link Sdn Bhd, MAA Takaful Berhad, Hisyam & Co and Logix Express Sdn Bhd. Academic-industry partnerships in line with the Tenth Malaysian Plan (2011-2015), emphasized on strengthening industry relationship with higher learning institution. The partnerships would open industrial attachments opportunities and also help fresh graduates to meet the evolving requirements of the industry. Partnerships are imperative as it provides a platform to create a better understanding of the needs of both parties and to identify how they can be met through academic programmes.

The signing ceremony was held between PSP and representatives from the companies, Tuan Mohd

Hishamuddin Abu Hassan (Founder of Hisham & Co), Tuan Mohamad Yazid bin Haji Ismail (Managing Director of Logix Express), Mr Tan Soo Kheng (Development Director of Great Vision), Mr Lim Khing Yam (Head of Executive Officer of Firstlink), Tuan Syed Ageel bin Syed Mohd Mahayadin Al Haddad (Managing Director of Al-Haddad Marketing) and Tuan Hamzani bin Hassan (Executive Consultant of MAA Takaful Berhad).

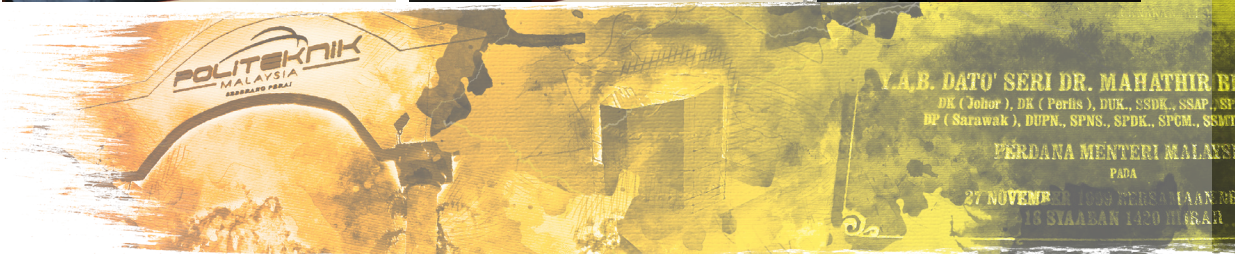
The LOI provided opportunities for both parties to carry out activities that strengthen academic-industry partnership, enhance academic and industry understanding on meeting each other's needs. These were achieved through various programmes that encouraged knowledge transfer such as short courses, seminars and workshops involving local entrepreneurs in the Seberang Perai District.



One of the workshops held was on Customer Relation Management (CRM) software. CRM software is a software enterprise that covers a broad set of applications and softwares designed to help businesses manage customers' data and customers' interaction, access business information, automate sales, marketing and customer support and also manage relationship between employees and vendor partners. PSP also had collaborated with MAA Takaful Sdn. Bhd. in organising business and marketing simulation programmes, entrepreneurship workshops and shariah compliance finance management seminars. Basic Takaful Representative Certificates were awarded to students who had successfully completed the programmes.

The collaboration also opened doors for students and lecturers to be attached to the industries through staff industrial attachment and internship programmes. Staff industrial attachment provided opportunities for lecturers to improve their skills and competencies on the related subject matters. The skills and knowledge acquired by students during industrial training would enable them to integrate seamlessly with the industries after graduation.

It was hoped that the engagement between PSP and the industries would enable the institution to meet industrial needs particularly in developing human resources for future manpower requirements.



Safety and Health Workshop

Training workshops can help to develop the knowledge and skills needed to understand workplace hazards and safety procedures. On 4-5 March 2015, NOSH Company Sdn. Bhd. organized a two-day Safety and Health Workshop for the Seberang Perai Polytechnic staff. The workshop was held at the CIMA Factory Sdn. Bhd. Twenty-five participants joined the workshop led by the Occupational Safety and Health officer, Mr. Kamaruzaman Jaaffar and his unit members from the Mechanical Engineering Department of Seberang Perai Polytechnic. The objectives of the workshop were to enhance teamwork skills and allow each team member to work efficiently and effectively on the issue of occupational safety and health in the polytechnic. The workshop provided trainings and group works where participants were exposed to the Occupational Safety and Health Act 1994 and its compliance. This training collaboration with the industry had opened the door for better understanding and awareness on the importance of safety and health among the staff in the polytechnic.

Security in Computer Networking Seminar

The Security in Computer Networking Seminar for Seberang Perai Polytechnic (PSP) students was carried out on 15th September 2015 at Dewan Kuliah Utama, PSP. The seminar was organised by Electrical Engineering Department (JKE). A total of 195 students from Diploma in Electrical Engineering (Computer) (DTK) and Diploma in Electrical Engineering (Communication) (DEP) and lecturers from JKE were involved in the seminar which was presented by Kamal Harmoni bin Kamal Ariff a Senior Manager of IT and Technology Department, KISMEC, Sungai Petani. The seminar was aimed at exposing the students to the concept of Security in Computer Networking and their needs in the field of industries. The seminar also provided a lot of new information to the lecturers on the networking security which enabled them to use the input for teaching and learning purposes in the future. Overall, the seminar served as a platform of knowledge sharing between the organisation and polytechnic and also as a medium to enhance students' understanding in networking security.





15TH PSP CONVOCATION CEREMONY



FACTS & FIGURES



48 STATISTICS OF SEBERANG PERAI POLYTECHNICS GRADUATES

PSP had produced 1,268 graduates in 2015. The breakdown of graduates according to departments and programmes for both December 2014 and June 2015 session is in Table 1.

Table 1 : Number of graduates by programmes

Department	Session		Total
	December 2014	June 2015	
ELECTRICAL ENGINEERING DEPARTMENT :			
Dip. in Electronic Engineering (Communication)	41	32	73
Dip. in Electronic Engineering (Computer)	74	23	97
Total	115	55	170
MECHANICAL ENGINEERING DEPARTMENT :			
Dip. in Mechanical Engineering (Manufacturing)	30	8	38
Dip. in Mechanical Engineering (Plant)	30	25	55
Dip. in Mechanical Engineering (Textile)	10	5	15
Dip. in Mechanical Engineering	79	44	123
Total	149	82	231
COMMERCE DEPARTMENT :			
Dip. in Accountancy	82	68	150
Dip. in Business Management	76	63	139
Dip. in Logistics Management and Supply Chain	66	22	88
Dip. In Islamic Banking and Finance	79	60	139
Total	303	213	516
INFORMATION TECHNOLOGY AND COMMUNICATION DEPARTMENT :			
Dip. in Programming	124	50	174
Dip. in Network System	109	68	177
Total	233	118	351
MATHEMATICS, SCIENCE AND COMPUTER DEPARTMENT :			
Pre-Science	0	32	32
Total	0	32	32
TOTAL ALL DEPARMENTS	800	468	1268



In 2015, a tracer study was conducted on Seberang Perai Polytechnic (PSP) graduates. A total number of 1,268 graduates responded to the studies. The graduates were from Electrical Engineering Department, Mechanical Engineering Department, Commerce Department and Information Technology and Communication Department.

The objective of the study was to obtain information and feedback on graduates’ employability rate, their work status and work sector.

Respondents’ Destination

Generally the main aim of the respondents’ destination is to be employed as soon as possible. Table 2 shows in 2015 53.2% respondents choose to join the workplace, 14.6% decided to pursue for a higher education and further training and 6.7% were neither employed nor continuing studying. Table 3 shows the status of students furthering their studies. Out of respondents pursuing higher education, respondents are studying in Public Higher Learning Institution, and chose to study in Private Learning Higher Education.

Table 2 : Respondents’ destination status

Status	Percentage (%)
Joining the workforce	78.7
Working	53.2
Looking for work	23.1
Waiting for job placement	2.4
Pursuing higher education and further training	14.6
Continuing education	7.0
Improving skills	1.6
Waiting to enrol at higher learning institution	6.0
Not joining workforce or education field	6.7
Not working for various reasons	3.9
Do not want to work	0.4
Others	2.4
Total	100%



Table 3 : Respondents' status on furthering their studies

Variables	Frequency	Percentages (%)
Gender		
Male	74	40.9
Female	107	59.1
Mode of Study		
Full Time	169	93.4
Part Time	12	6.6
Level of Tertiary Education		
Bachelor	160	88.6
Diploma Lanjutan	1	0.6
Diploma	15	8.3
Sijil	3	1.7
Profesional (ACCA, CAT, CPA etc.)	2	1.0
Sponsorship		
PTPTN	99	54.7
Majlis Amanah Rakyat (MARA)	20	11.0
Persendirian (Ibu Bapa/Keluarga/Sendiri)	12	6.6
Universiti Awam (UA)	11	6.1
Baitulmal	7	3.9
Kementerian Pendidikan Tinggi	6	3.4
Kerajaan Negeri/Yayasan Negeri	3	1.7
Bank (Bank Rakyat, Maybank, CIMB etc.)	3	1.7
Tenaga Nasional Berhad (TNB)	1	0.6
Kementerian Pelajaran Malaysia	1	0.6
Jabatan Perkhidmatan Awam (JPA)	1	0.6
Syarikat Swasta	1	0.6
Amanah Raya Berhad	1	0.6
Others	15	8.3
Place of Study		
UA	111	61.3
IPTS	32	17.7
Polytechnics	23	12.7
Institut Pendidikan Guru	1	0.6
Institusi Latihan (Kementerian Sumber Manusia)	1	0.6
Institusi Pendidikan MARA	1	0.6
Others	12	6.6
Are you furthering your studies in the same/related field?		
Yes	145	80.1
No	36	19.9

Respondents' Employability

The marketability of the respondents is defined as the ability of the respondents to be employed. A survey on the employability rate of the respondents was carried out to measure the marketability of the respondents.

Table 2 shows in 2015 the overall employability rate for Seberang Perai Polytechnic respondents was 86.3%. Mechanical Engineering Department's respondents had the highest rate of employability that was at 86.3%, followed by the Commerce Department at 78.7%. The Electrical Engineering Department's employability rate was only 66.5% while the Information Technology and Communication Department was at 68.3%.

For diploma level, in 2015, respondents of Diploma in Mechanical Engineering recorded the highest percentage of working graduates, which was 16.1%, followed by Diploma in Information Technology (Programming) respondents with 15.1%.

Table 4 : Employability rate among respondents according to departments for 2015

Department	Employability Rate (%)
ELECTRICAL ENGINEERING DEPARTMENT	
Dip. in Electronic Engineering (Communication)	76.6
Dip. in Electrical Engineering (Computer)	68.5
MECHANICAL ENGINEERING DEPARTMENT	
Dip. in Mechanical Engineering (Manufacturing)	86.3
Dip. in Mechanical Engineering (Plant)	77.6
Dip. in Mechanical Engineering (Textile)	56.0
Dip. in Mechanical Engineering	77.7
COMMERCE DEPARTMENT	
Dip. in Accountancy	78.7
Dip. in Business Management	73.1
Dip. in Logistics Management and Supply Chain	66.0
Dip. in Islamic Banking and Finance	66.3
INFORMATION TECHNOLOGY AND COMMUNICATION DEPARTMENT	
Dip. in Programming	68.4
Dip. in Network System	60.1
OVERALL EMPLOYABILITY RATE	71.1



NOS	Publications	ISBN/ ISSN/ Volume No
1	Journal of Manufacturing (Jurnal jmfac)	ISSN 2289-6066
2	Basic Study Skills	ISBN 978-967-0783-04-4
3	Manufacturing Control for Manufacturing Students	ISBN 978 967 -0785 05 5
4	PSP's Research Digest	Volume 06 Number 01 November 2015

EFFICIENT FINANCIAL MANAGEMENT

Financial management, being an important aspect of organization management, is given due emphasis in the e-PolyPMO and the PolyRATE. Efficiency in the payment of bills particularly is set as one of the key performance indicator (KPI). It is targeted that all bill payments are made within seven days.

The polytechnic, hence, took extra effort to ensure efficiency in its financial management, particularly in the settling of bills. It can boast of its performance as bill payment performance in 2015 was excellent. The tables show a summary of financial management.

Table 6 : Statement of income and expenditure for the year 2015

Grant	Allocation (RM)	Actual Expenditure (RM)
Operating Cost	38,178,532.00	38,142,315.85
Development cost	2,366,060.00	2,365,993.78
Total	40,544,592.00	40,508,309.63

Table 7 : Statement of revenue for the year 2015

Revenue	Actual Revenue (RM)
Tuition Fees	1,572,200.00
Hostel Fees	471,660.00
Time Sector Privatisation	104,783.62
Compound	8,926.40
Rentals - Cafeteria & Canteens	81,950.00
Total	2,239,520.02

Table 8 : Bill payment performance of 2015

No of days	Number of Bills	Amount (RM)	Percentage (%)
< 7 days	1353	9,234,988.29	100





TECHCREAVERY 2015

Special Acknowledgement

Congratulations

to

PSP ON THE CONFERMENT OF THE
APACC ACCREDITATION GOLD AWARD





APACC GOLD AWARD ACHIEVEMENT : A HISTORIC MILESTONE FOR PSP



APACC Main Committee are all smiles after PSP received the coveted Gold Award



Asia-Pacific Accreditation and Certification Council (APACC) is an international accreditation and certification body based in Manila, Philippines. APACC assesses and awards institutions that provide Technical & Vocational Education & Training (TVET). APACC accreditation is the only specialized accreditation for TVET institutions. It was established under the auspices of the Colombo Plan Staff College (CPSK) for Technician Education, which evaluates staff training in TVET colleges.

CPSK established APACC in December 2004 in Seoul, Korea. APACC comprises 17 member countries within the Asia Pacific region, including Malaysia. The representatives from the 17 member countries committed to set up a regional body to provide accreditation and certification to deserving TVET institutions. As at 2013, 87 institutions from eight countries had applied for APACC accreditation. Of the 87 institutions, only 29 (or 33.3%) were successful in obtaining APACC accreditation. 3 institutions were awarded Silver (3.4% out of the 87 participating institutions) while 26 institutions were awarded the Bronze.

On 23 June 2015, Politeknik Seberang Perai (PSP)

became one of the few institutions to have been awarded the GOLD standard by the Asia-Pacific Accreditation and Certification Council (APACC).

Difficult Path Towards International Recognition
It was a long and arduous journey in order to get APACC recognition. Institutions applying for APACC recognition must be able to fulfill stringent standards in the seven areas in the APACC accreditation system. The seven criteria are Governance and Management, Teaching and Learning, Faculty and Staff, Research and Development, Consultancy, Extension and Linkages, Resources, and Support to Students. To comply with APACC's stringent requirements, many procedures have to be adhered to and current practices have to be refined. To achieve this goal, PSP took more than a year to meticulously and thoroughly prepare for the APACC audit.

The APACC accreditation process was very technical and in-depth, requiring a comprehensive set of supporting documents and evidence to prove that PSP has what it takes to earn the award. Thus seven technical committees were formed to ensure PSP fulfilled the standards of the accreditation. PSP conducted study visits to Politeknik Ungku Omar (PUO) and Politeknik Sultan Salahuddin Aziz Shah, which have previously been awarded the APACC Gold. Courses and workshops were also organized to prepare committee and staff for the demanding and challenging APACC accreditation process.



Management team, faculty, and students with the APACC panel of auditors giving the thumbs up for PSP

Several simulated audits and inspections were held in preparation for the real accreditation session. A Mock Audit 1.0 was held in February 2015. PSP's mock score was 465/500 points, which meets the gold award standard. A Mock Audit 2.0 followed in March 2015, just before the actual accreditation on 24-26 March 2015.

In addition, polytechnics needed to gain international recognition to produce graduates who are capable of tapping into overseas employment opportunities. This will pave the way for Malaysia to become a high-income nation and a leading destination for TVET education in the region.

PSP was audited by a panel of four APACC auditors, comprising representatives from several countries in the APACC region. The audit team meticulously reviewed PSP's compliance with all the seven criteria as defined by the APACC accreditation system. The APACC accreditation team visited selected departments, viewed the facilities in PSP, interacting with students and staff and reviewing documents and evidence.

It was a highly charged moment for those who had to respond to on-the-spot to questions posed by the auditors. The interview and documentation review process were especially rigorous, as the presentations had to be systematic and accurate. After the auditors' visit, there was a long wait, with full anticipation of the final result.



The prestigious APACC Gold Award



PSP graduates now have international recognition

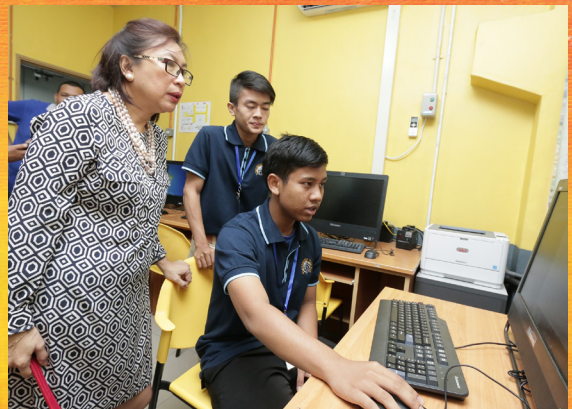


Congratulations to the PSP management team!

Moving Forward in the Transformation Agenda
The Polytechnic Transformation Agenda states that all polytechnics in Malaysia have to work towards accreditation by the Malaysian Qualification Agency (MQA) by 2015. This is to ensure high standards are adhered to in TVET delivery.

The Gold Award from APACC is a shining beacon in PSP's history and a victory for Malaysian Polytechnics in general. With this prestigious APACC recognition, Malaysian Polytechnics will continue to stride towards achieving the lofty goals outlined in the Polytechnic Transformation Plan.

www.psp.edu.my







A VISIT BY THE DELEGATES FROM WEST YANGON TECHNICAL UNIVERSITY



CALENDAR OF EVENTS



JANUARY 2015



- A DIALOGUE BETWEEN STUDENT LEADERS WITH PSP DIRECTOR
- BLOOD DONATION PROGRAM
- MAULIDURRASUL TALK
- AL-QU'RAN RECITAL : A JOINT PROGRAM WITH AN EMINENT INDONESIAN JUNIOR AL-HAFIZ
- A PROGRAM WITH NAZA MOTORS

FEBRUARY 2015



- SIGNING OF LETTER OF INTENT WITH INDUSTRIES
- SCHOOL VISITS
- A BRIEFING ON HOUSING LOANS
- INNOVATIVE & CREATIVE IDEAS EXHIBITIONS (IClex 2015)

MARCH 2015



- APACC ACREDITATION AUDIT
- TECH CREAVERY PROGRAMS
- STREET ART CHALLENGE
- PUSPANITA MEETINGS
- TRANSFORMING LOGISTIC THROUGH INNOVATION WORKSHOP
- 1M4U CSR PROJECT

APRIL 2015



- A SCHOOL VISIT TO PSP'S TRIGONA FARM
- RECRUITMENT OF THE WATANIAH FORCE MEMBERS

MAY 2015



- 8TH MALAYSIA CUP AND FIRA CONGRESS
- 19TH NATIONAL AL-QU'RAN RECITATION & NASYED COMPETITION (MTQN) 2015, PEYATIM
- POLY ENEP (ENGLISH ENHANCEMENT PROGRAM)

JUNE 2015



- POST APACC PRESS CONFERENCE
- TVET PROGRAM ENHANCEMENT WORKSHOP (AN INITIATIVE BY INDUSTRIES IN THE NORTHERN ECONOMIC CORRIDOR)

JULY 2015



- A VISIT BY THE DELEGATES FROM THE CAMBODIAN MINISTRY OF LABOUR AND VOCATIONAL TRAINING
- PPPM (PT) ROADSHOW

AUGUST 2015



- 20TH FIRA ROBOWORLD CUP AND CONGRESS, SOUTH KOREA

SEPTEMBER 2015



- 15TH PSP CONVOCATION CEREMONY
- 2015 ICTVET CONFERENCE
- 2015 JOB FAIR

OCTOBER 2015



- OHSAS AUDIT
- 2015 MEA ON SITE VISIT
- 1M4U CSR PROJECT

NOVEMBER 2015



- 2015 WOOD BADGE (MANIKAYU) CONFERMENT CEREMONY
- A VISIT BY THE DELEGATES FROM WEST YANGON TECHNICAL UNIVERSITY

DECEMBER 2015



- AUDIT SIRIM
- SYMPOSIUM ON TVET GRADUATES EMPLOYABILITY (NSTGE 2015)
- 2015 POLYTECHNIC ENTREPRENEUR AWARD

JABATAN
KHALIAWAN
PELAJAR



MOHE ENTREPRENEURIAL
AWARDS
2015
Celebrating
Entrepreneurial
T A L E N T

GRAND WINNER
ENTREPRENEURIAL POLYTECHNIC OF THE YEAR 2015
RINGGIT MALAYSIA : TWO HUNDRED THOUSAND ONLY

RM 200,000.00



FINALIST
INSTITUTIONAL CATEGORY (POLYTECHNIC)
RINGGIT MALAYSIA : FIFTY THOUSAND ONLY
RM 50,000.00



MOHE ENTREPRENEURIAL AWARD (MEA) 2015

ENTREPRENEURIAL
POLYTECHNIC
OF THE YEAR



POLITEKNIK SEBERANG PERAI

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