

# 2021

## ANNUAL REPORT

### POLITEKNIK SEBERANG PERAI



“

**PSP  
strives for  
TVET  
excellence and  
greatness**

”



## Our Team

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## Table of Content

<b>01-02</b>	Message From the Director	34	National Virtual Pitching Competition 2021 (NVPC)
<b>05-14</b>	<b>About Us</b>	35	Prize Presentation Ceremony and Talk by The Department of Environment (DOE), Penang
07	About PSP	36	20th PSP Convocation Ceremony
08	Mission and Vision	37	Penang International Invention, Innovation and Design 2021 (PIID 2021)
09	Strategic Core	38	Seberang Perai Polytechnic Independence Month Celebration
10	Education Goal	39	International Conference of Reliable Information and Communication Technology 2021 (IRICT 2021)
10	Organizational Goal	40	Copyright Reserved
10	Programmes Offered in PSP	40	Academic Journal - IT Aspire
11	Management Team	41	Digital Entrepreneurship Talk : An Irresistible Business Method in Year 2021
12	Human Resource	42	TVET Research and Innovation Colloquium (Logistics) 2021 [CTVETRL21]
<b>15-22</b>	<b>Key Statistics</b>	43	Strengthening Digital Literacy Among Staff
16	Statistics of PSP Students	43	Social Entrepreneurship in Learning Environment
17	Statistics of PSP Graduates	44	Webinar - Lotus's Best Practices in Warehouse and Supply Chain Management in The Retail Industry
19	Graduates Employability	44	Webinar in Logistics and Supply Chain Management 2021 - Linking Academia With Industry
21	Financial Management	45	Webinar - Entrepreneurship : Phasing Through Challenging Time
<b>23-52</b>	<b>Events and Activities</b>	47	Malaysia Prihatin Program
24	Opening Ceremony of New Library Building	48	East Coast Flood Victims Contribution Programme
25	MyAgrosis PSP Cooperation With FAMA	49	YAPIEM'S 'Ready To Eat' Program
25	PSP Industrial Advisory Committee Talk 2021	49	Zakat Aid Distribution Ceremony to Asnaf Students
26	UAV/Drone Pilot Accreditation, Maintenance and Repair Training Programme	50	Infaq Ramadan Programme
28	Scholarship by PKT Logistics to PSP Students	51	'Gotong Royong' Surau Hidayatul Bilal
29	Innovation Competition 2021 (INNOCOMP21)	52	Robot Donation to Sekolah Kebangsaan Sungai Duri Robotic Club
29	MMU-VEX Robotics Competition 2021 (MVRC)		
30	Community Outreach Program Monitoring Student Admission to PSP Campus		
31	Malaysian Polytechnic and Community College Newscasting Webinar & Competition 2021		
33	National Heritage Networking Program and UNESCO(JIWAKU 2021)		
<b>53-56</b>	<b>Awards</b>		
54	Academia Day Celebration 2021 - Honouring Higher Education Educators		
<b>57-59</b>	<b>Publication</b>		
58	List of PSP Publications		



“ An individual opinion is like a single thread, while two opinions are like two interwoven threads, and three can never be broken. ”

‘Umar ibn al-Khattab

From Dr. ‘Ali Muhammad al-Sallabi, ‘Umar: His life and Times. International Islamic Publishing House, 2002.

## Director Message

Assalamualaikum dan salam sejahtera

I would like to express my sincere gratitude to the PSP’s Annual Report Committee for giving me the opportunity to say a few words in this 2021 Annual Report.

Technical Vocational Education and Training or known as TVET in its famous acronym, is one of the critical drivers in the transformation of Malaysia’s education system and contributes towards sustainable economic growth. It works to develop and equip individuals with current skill sets based on the industry demand, which we know is evolving rapidly into various industrial revolutions.

Since the establishment of the country’s first polytechnic, Malaysia has been actively involved in empowering TVET at various ministries and levels to meet the needs of various industries. However, many challenges are being faced in this effort to strengthen the TVET agenda and it became worse in the emergence of the COVID-19 outbreak which has changed many aspects of teaching and learning especially the delivery method from conventional to remote learning.

The Seberang Perai Polytechnic (PSP) as an institution that aims to take lead in providing technical and vocational training, aspires to initiate changes that can make things better, faster, cheaper or easier. This is in tandem with the aspirations that have been stipulated in the Department of Polytechnic Education and Community College Strategic Planning 2018-2025. The aspirations and fundamentals embedded in this Strategic Plans need to be realised through assertive implementation strategies.

Over the past 23 years we have been successful in achieving our goal of producing knowledgeable, skilful and highly motivated semi-professional who are able to meet the needs of the public and industrial sectors. Students of the polytechnic are considered as invaluable human capital whose knowledge, skills and attitude need to be nurtured to meet the demands of the dynamic job market. A concerted effort by lecturers through 1L5G (One lecturer and 5 students) program together with comprehensive approach are adopted to ensure students’ employability and marketability are at the desirable percentage. Our latest employability statistics for the year 2021 shows that we managed to achieve 90.4%, which is one of the highest among the Malaysian Polytechnics.

In the year 2021, PSP sustained its progression and continued to be among the top polytechnics in the country. Various smart partnership initiatives are being the driving force in propelling PSP to higher levels. A smart collaboration with Unmanned Aerial Vehicle (UAV) or drone experts from the Malaysian UAV Drone Activists Association (MUDAS), for example,



is set to make PSP a comprehensive drone technology training centre in the future. PSP also took pride when PKT Logistics has agreed to offer Special Scholarships to students from Diploma in Logistics and Supply Chain Management.

The staff and students of the polytechnic are also excelled in the aspects of various inventions and innovations. They participated in several national and international level competitions such as Innovation Competition 2021 (INNOCOMP21), Penang International Invention, Innovation and Design 2021 (PIID 2021) and MMU-VEX Robotics Competition 2021 (MVRC) to name some and have won several awards.

In producing versatile and holistic students, PSP encourages students to be involved in Corporate Social Responsibility (CSR) Programmes and voluntary activities in many parts of the country. In the year 2021 PSP students participated in the East Coast Flood Victims Contribution Programme. Their involvement helped them to develop good leadership skills, soft skills, organizational skills and also communications skills.

Covid-19 pandemic had made webinars a means for knowledge dissemination and sharing. During the pandemic era, PSP has hosted a number of virtual seminars to help its staffs stay informed and healthy. For example, PSP has organised TVET (Logistics) Research and Innovation Colloquium (CTVETriL21), a webinar in Logistics and Supply Chain Management in 2021, linking academia with industry, entrepreneurs and also several other webinar programs. The benefit of conducting webinars is to help the lecturers and students to enhance and update their knowledge in the latest techniques and methods related to their respective fields.

In tandem with World's Teachers Day, the ministry of Higher Education has decided to declare Oct 5th as the Academia Day and the month of October as the Academia Month. This special day honours educators at public and private higher education institutions, polytechnics, community colleges, teachers training institutes, matriculation colleges, as well as technical and vocational training institutes. PSP has utilised this day to recognise the services and contribution of its lecturers. For the year 2021, Dr. Nor Hasni binti Haron, Mr. Mariappen Gopalakrishnan, Dr Mohd Pahmi bin Saiman and Dr. Nur Azilina binti Abdul Aziz were selected as award recipients for various categories.

Lastly, I would like to convey my sincere gratitude to all the staff and students of PSP who have contributed towards our excellence.

Thank you, Wassalam



Sr. Harith Fadzilah Bin Abd Khalid  
Director of Politeknik Seberang Perai



# About Us



## About Politeknik Seberang Perai

Politeknik Seberang Perai (PSP) began its operation on 1 September 1998 and was officially launched on 27 November 1999 by Tun Dr. Mahathir bin Mohamad. PSP is located in the rapidly growing industrial area and it takes about 30 minutes to reach from the Georgetown, Pulau Pinang. PSP is the 10th polytechnic under the Ministry of Education Malaysia (MOE), which was set up in line with the government's policy to offer Technical and Vocational Education and Training (TVET) to SPM leavers in order to produce competent semi-professionals who fulfil the aspirations of the nation.

There are four main academic departments offering courses at the 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 General Studies Department.

The PSP campus is equipped with teaching and learning facilities which can accommodate around 5000 students. In addition, PSP is also equipped with modern facilities such as library, computer laboratory, Islamic Centre, Multimedia Centre, students' hostel, students' activity centre, sport complex, multipurpose hall, lecture hall and mini hotel.

Moving towards the 21st Century Learning Space, the learning process in PSP involves several approaches, including Blended Learning and active learning styles. The incorporation of Technology Enabled Collaborative Classroom (TECC) in the learning process allows students to explore knowledge and encourage them in becoming independent learners.

As a centre of excellence in engineering, technology and commerce, PSP has been awarded the APACC Accreditation Gold Award, OSHA Certification, 5S Certification and MS ISO 9001:2008 Certification apart from numerous excellence awards.





## Vision

To become an excellent TVET institution

## Mission

Developing well-balanced, entrepreneurial, band holistic graduates;

Providing a wide access to quality and recognized TVET programmes;

Making full use of smart sharing with stakeholders;

Strengthening community through research, innovation, and lifelong learning.

## Strategic Core

### 1st Core

Producing Quality TVET Graduates

### 2nd Core

Solidifying Responsive and Sustainable Governance

### 3rd Core

Enriching Talent

### 4th Core

Leading Education System Through Industry Revolution

### 5th Core

Strengthening Industry and Community Collaboration

### 6th Core

Cultivating Applied Research and Innovation

## Education Goal

Providing TVET graduates who are holistic, competent and capable of contributing to national development.

## Organizational Goal

Producing credible and highly sought after TVET graduates who contribute towards the country's economic development;

Reinforcing the relevance and responsiveness of programs in PSP to fulfill the industrial demands.

Gearing a community towards a harmonious and peaceful globalized world.

## Programmes Offered in PSP

Department	Programmes Offered
Commerce Department	Diploma in Accountancy Diploma in Business Studies Diploma in Finance and Islamic Banking Diploma in Logistics and Supply Chain Management
Information and Communication Technology Department	Diploma in Information Technology (Digital Technology)
Electrical Engineering Department	Diploma in Electronic Engineering (Computer) Diploma in Electronic Engineering (Communication) Diploma in Electric and Electronic
Mechanical Engineering Department	Diploma in Mechanical Engineering Diploma Mechanical Engineering (Manufacturing) Diploma Mechanical Engineering (Plant) Diploma Mechanical Engineering (Textile)

## Management Team







## Human Resource

A total of 419 positions were approved under the employment warrant for Seberang Perai Polytechnic until 31 December 2021. However, out of these positions, only 398 were filled. Among the filled positions, the top management accounted for 3 positions, the academic group for 294 positions, the management and professional group for 11 positions and the implementation group for 90 positions.

No	Position	Grade	Total
1	Director	DH53/54	1
2	Deputy Director (Academic)	DH51/52	1
3	Deputy Director (Academic-Support)	DH47/48	1
4	Head of Department	DH47/48	8
5	Course Coordinator	DH43/44	16
6	Management Officer	DH43/44	4
7	IT Officer	F44	1
8	Communication and Corporate Relation Officer	S44	1
9	Librarian	S44	1
10	Management Officer	DH41/42	8
11	Lecturer, Higher Education Officer	DH29 DH31/32/ DH33/34/ DH39/40/ DH41/42/ DH43/44/ DH47/48/ DH51/52/ DH53/54	259
12	IT Officer	F41/44	3
13	Psychology Officer	S41/44	2
14	Sport Officer	S41/44	1
15	Engineer	J41/44	1
16	Assistant Administrative Officer	N29/N32/N36	4
17	Assistant Accountant	W29/W32/W36	4
18	Assistant Engineer	JA29/JA30/ JA36/JA38	13
19	Assistant IT Officer	FA29/ FA32/FA38	9
20	Assistant medical officer	U29	1
21	Assistant Librarian	S29/S32/S38	1
22	Administrative Assistant (Clerical / Operation)/Hostel warden	N19/N22/N26	18
23	Lab assistant	C19/C22/C26	4
24	Computer technician	FT19/ FT22/FT26	1
25	Special Assistant, Assistant Office Secretary/ Office Secretary	N19/ N22/N30	1
26	Customer Service Officer	N19/ N22/N26	2
27	Assistant Librarian	S19/S22/S26	4
28	Financial administrative assistant	W19/ W22/W26	2
29	Audio Visual Engineer	N19/ N22/N26	1
30	Photographer	B19/B22/B26	1
31	Operations Assistant	N11/N14/N16	12
32	Plant Operator	H11/H14/H16	1
33	Driver	H11/H14/H16	10
34	Skill assistant	H19/H22/H26	1
			<b>398</b>



## Key Statistics

## Statistic of the Politeknik Seberang Perai Students

Politeknik Seberang Perai (PSP) offers a variety of courses according to the respective departments. There are four departments in PSP. Department of Electrical Engineering offers Diploma in Electronic Engineering (Computer), Diploma in Electronic Engineering (Communication) and Diploma in Electrical and Electronic Engineering. Department of Mechanical Engineering offers Diploma in Mechanical Engineering, Diploma in Mechanical Engineering (Manufacturing), Diploma in Mechanical Engineering (Plant) and Diploma in Mechanical Engineering (Textile). Department of Information and Communication Technology offers Diploma in Information Technology (Digital Technology). The Commerce Department offers Diploma in Accountancy, Diploma in Islamic Banking and Finance, Diploma in Business Studies and Diploma in Logistics and Supply Chain Management.

DEPARTMENT	DEC 2020	SESSION 1 2021/2022	TOTAL
<b>ELECTRICAL ENGINEERING DEPARTMENT</b>			
Diploma in Electronic Engineering (Computer)	284	262	546
Diploma in Electronic Engineering (Communication)	214	234	448
Diploma in Electric and Electronic	399	349	748
<b>Total</b>	<b>897</b>	<b>845</b>	<b>1742</b>
<b>MECHANICAL ENGINEERING DEPARTMENT</b>			
Diploma in Mechanical Engineering	489	500	989
Diploma in Mechanical Engineering (Manufacturing)	153	132	285
Diploma in Mechanical Engineering (Plant)	131	130	261
Diploma in Mechanical Engineering (Textile)	85	80	165
<b>Total</b>	<b>858</b>	<b>842</b>	<b>1700</b>
<b>COMMERCE DEPARTMENT</b>			
Diploma in Accountancy	413	367	780
Diploma in Business Studies	425	432	857
Diploma in Logistic and Supply Chain Management	492	487	979
Diploma in Islamic Banking and Finance	326	322	648
<b>Total</b>	<b>1656</b>	<b>1608</b>	<b>3264</b>
<b>INFORMATION AND COMMUNICATION TECHNOLOGY DEPARTMENT</b>			
Diploma in Information Technology (Digital Technology)	631	595	1226
<b>Total</b>	<b>631</b>	<b>595</b>	<b>1226</b>
<b>TOTAL</b>	<b>4042</b>	<b>3890</b>	<b>7932</b>

## Statistic of the Politeknik Seberang Perai Graduates

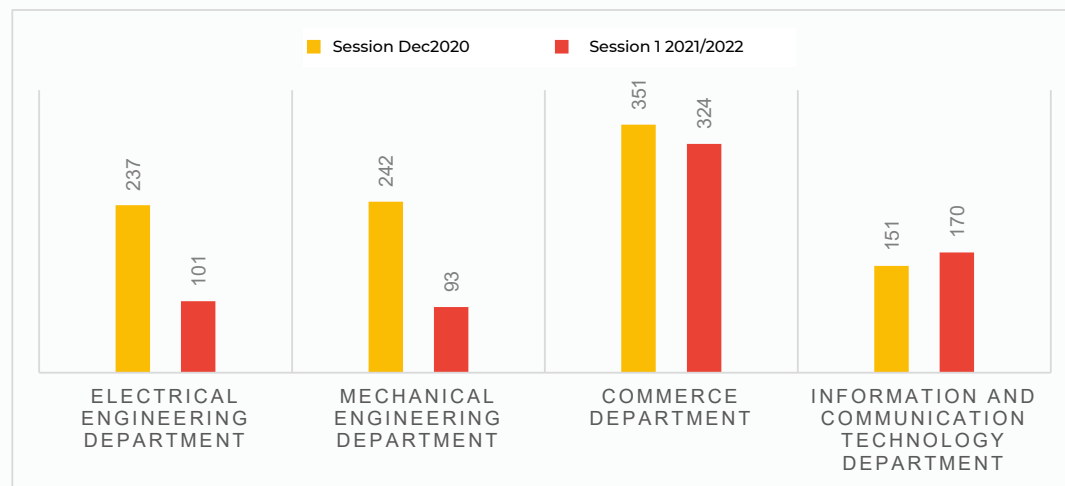
In 2021, the total number of PSP students who successfully completed their studies was 1669. Of the total, 338 were from the Department of Electrical Engineering, 335 were from Department of Mechanical Engineering, and 321 were Department of Information and Communication Technology and 675 were from Department of Commerce. The breakdown of graduates by diploma is as per the table below:

DEPARTMENT	DEC2020	SESSION 1 2021/2022	TOTAL
<b>ELECTRICAL ENGINEERING DEPARTMENT</b>			
Diploma in Electronic Engineering (Computer)	85	20	105
Diploma in Electronic Engineering (Communication)	32	41	73
Diploma in Electric and Electronic	120	40	160
<b>Total</b>	<b>237</b>	<b>101</b>	<b>338</b>
<b>MECHANICAL ENGINEERING DEPARTMENT</b>			
Diploma in Mechanical Engineering	117	54	171
Diploma in Mechanical Engineering (Manufacturing)	58	16	74
Diploma in Mechanical Engineering (Plant)	35	16	51
Diploma in Mechanical Engineering (Textile)	32	7	39
<b>Total</b>	<b>242</b>	<b>93</b>	<b>335</b>
<b>COMMERCE DEPARTMENT</b>			
Diploma in Accountancy	122	81	203
Diploma in Business Studies	71	79	150
Diploma in Logistic and Supply Chain Management	81	86	167
Diploma in Islamic Banking and Finance	77	78	155
<b>Total</b>	<b>351</b>	<b>324</b>	<b>675</b>
<b>INFORMATION DAN COMMUNICATION TECHNOLOGY DEPARTMENT</b>			
Diploma in Information Technology (Digital Technology)	151	170	321
<b>Total</b>	<b>151</b>	<b>170</b>	<b>321</b>
<b>TOTAL</b>	<b>981</b>	<b>688</b>	<b>1669</b>



## Statistic of the Politeknik Seberang Perai Graduates by session and department

PSP has produced 1669 graduates in 2021. The breakdown of graduates according to departments and programmes for all sessions were as follow:



Total Graduates  
**1669**

Electrical Engineering Department

**338**

Mechanical Engineering Department

**335**

Commerce Department

**675**

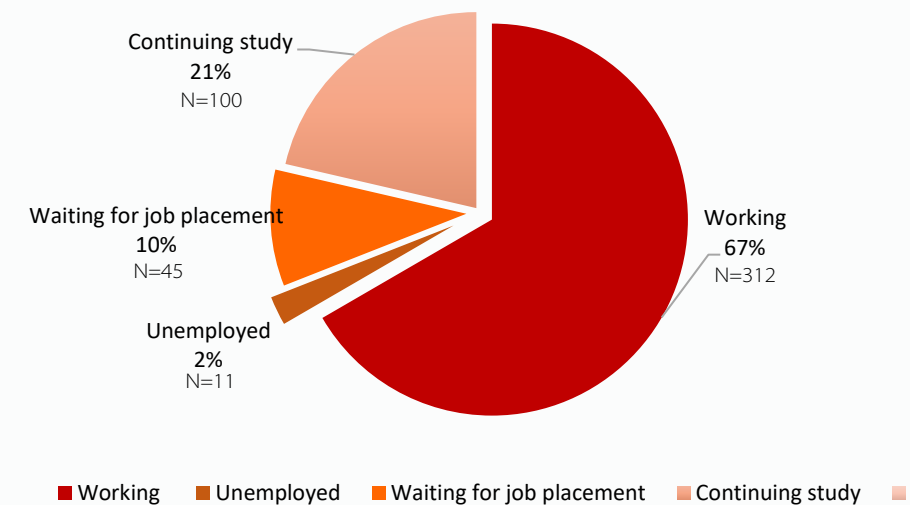
Information and Communication Technology Department

**321**

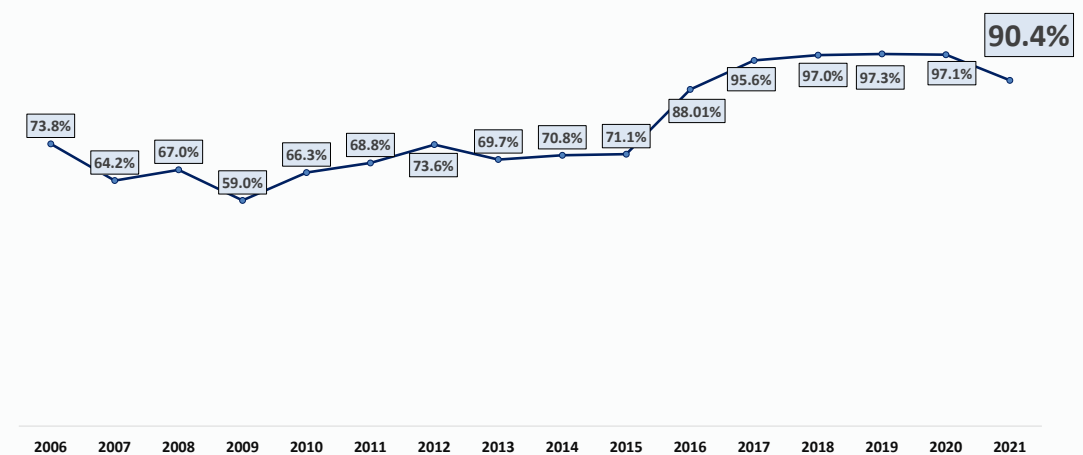
## Graduates Employability (GE)

Graduate employability rate covers graduates working, continuing their studies, improving skills and waiting for job placement in the convocation year. Seberang Perai Polytechnic Graduate Tracking Study for 2021 has involved 468 graduates. The response rate was 100%. The graduate employability rate reached 90.6% and only 9.6% of graduates were unemployed.

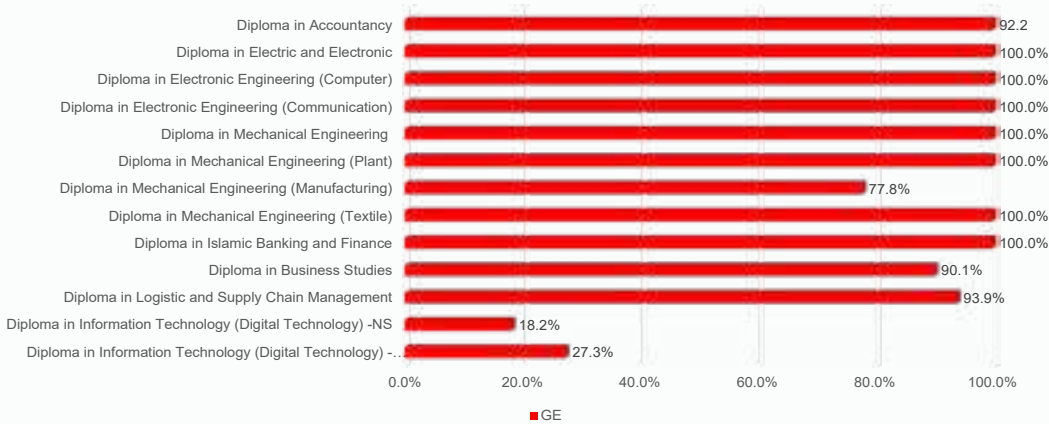
**GE 2021: 90.4%**



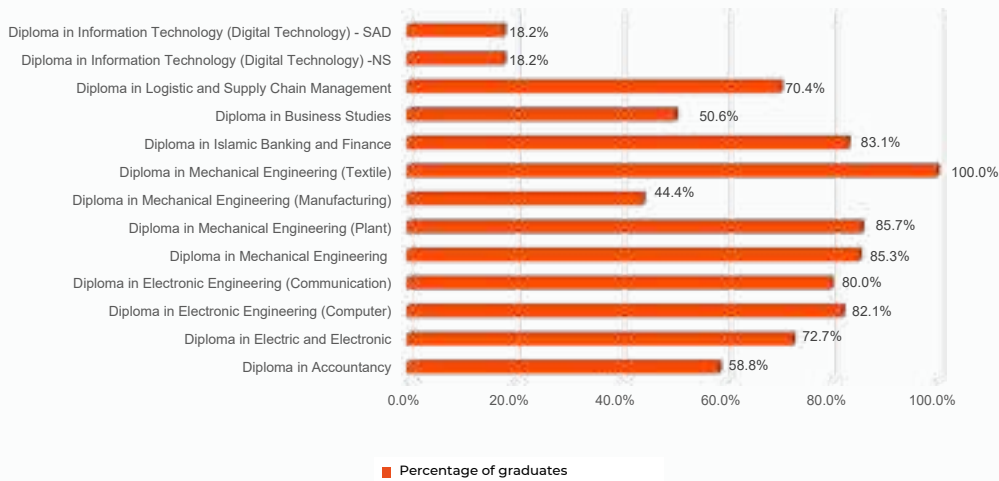
### GE trend 2006 - 2021



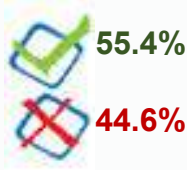
Ge Achievements According To Study Programs



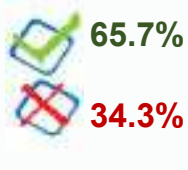
Achievement Of Graduates Working According To The Study Program



Graduate  
Employment  
Suitability



Graduate  
Employment Rate In  
Industrial Training  
Companies



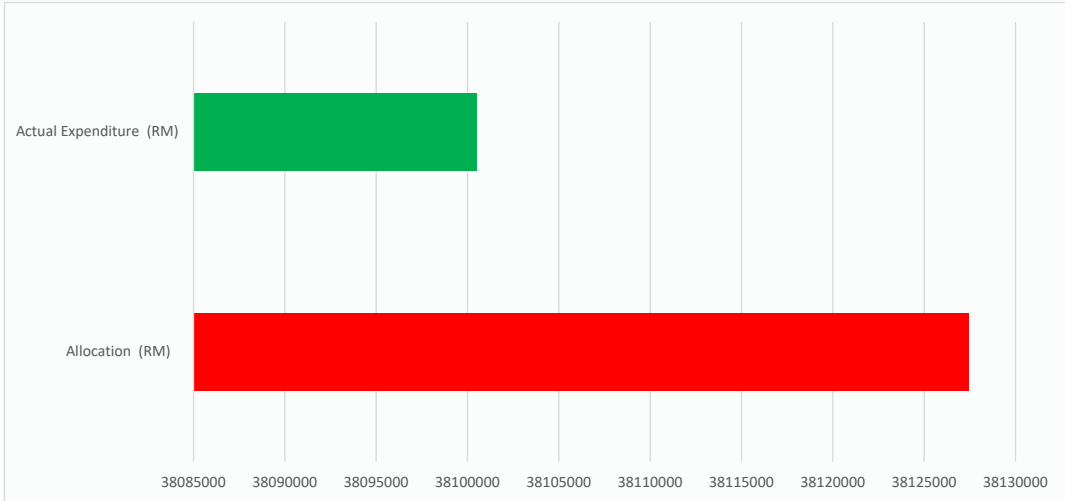
Financial Statements

An income and expenditure statement is a type of financial document designed to identify all forms of income that is received within a given period, while also documenting all payments or expenditures that were related to that same period. In addition to being used as a means of assembling historical data, it is also possible to compile this type of report for a future period, basing the combination of expenditures and income on projections of activity for that period. With either application, the idea is to utilize the data for purposes of analyzing the balance between income and expenditures and determine if the result of the activity is in the best interests of the business operation.

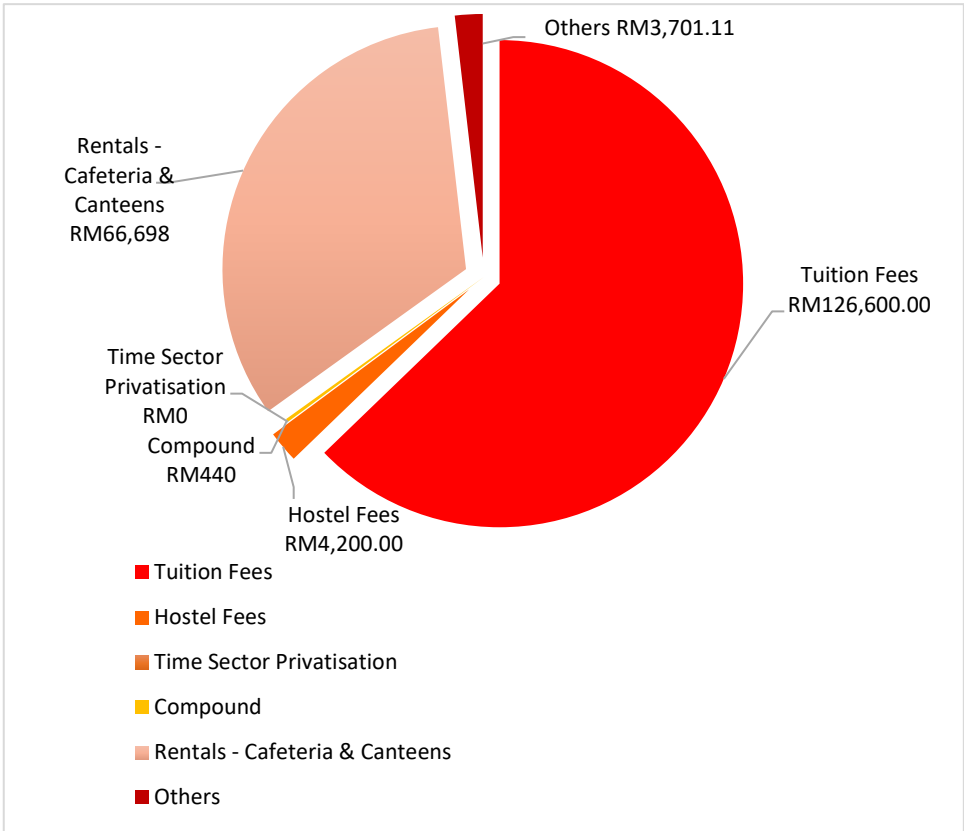
Statement Of Income And Expenditure For The Year 2021

Grant	Allocation (RM)	Actual Expenditure (RM)
Operating Cost	37,890,959.55	37,864,028.71
Development Cost	236,496.00	236,496.00
Total Cost	38,127,455.55	38,100,524.71

Total Cost Summary



Statement Of Revenue For The Year 2021



Bill payment performance for 2021

No of days	Number of bills	Amount(RM)	Percentage (%)
< 7 days	763	5,516,006.33	100
8 - 14 days	0	0	0
>14 days	0	0	0
Total Cost	763	5,516,006.33	100



Events and Activites



## OPENING CEREMONY OF NEW LIBRARY BUILDING



The construction of library new building is one of the Eleventh Malaysia Plan, 2016-2020 allocation projects under the Ministry of Higher Education. With the completion of this new building, it is expected to improve the infrastructure and facilities in this polytechnic and create a comfortable space for users. This project has successfully received the Certificate of Completion or CPC (Certificate of Practical Completion) on 5 January 2021. With the original contract cost of RM3,133,000.00, the current contract cost price is estimated at RM3,115,000.00 and the savings are estimated at RM17,000.00.

The new 1960 square feet building features seating for more than 100 people, study areas, seminar rooms, and equipped with Wiserf RFID Security and Barrier Gate. A project handing over ceremony was held on 19th March 2021 whereby Puan Suhaini binti

Saat, Divisional Engineer (JKR Seberang Perai Tengah) has handed over the completed project to Sr. Harith Fadzilah Bin Abd Khalid Director, Seberang Perai Polytechnic. An opening ribbon cutting ceremony to mark the completion of the new building's construction was held on 22 March 2021 by Deputy Minister of Higher Education Dato' Mansor Othman.



## MYAGROSIS PSP COOPERATION WITH FAMA

Realising of the importance of fostering a culture of entrepreneurship among students, Polytechnic Seberang Perai (PSP) took the initiative to collaborate with the Federal Agricultural Marketing Authority (FAMA) through PSP's MYAGROSIS Club to expose students to agricultural entrepreneurship. The collaboration introduced students to farm management and marketing, as well as trained students to handle business projects more organised and systematic manner.

Three acres of land in PSP are used as a Contract Farm Project to grow sugarcane and bananas. PSP would continue to facilitate and support the new development of new

ventures among students by providing entrepreneurial supports such as providing the infrastructure and necessary funds.



## PSP INDUSTRIAL ADVISORY COMMITTEE TALK 2021

The Fourth Industrial Revolution or IR 4.0 requires changes within an industry that aligns with rapid technological and intelligent systems development. IR 4.0 revolutionises process automation, monitoring, and analysis through innovative technology. IR 4.0 is powered by the Industrial Internet of Things (IoT) and cyber-physical systems, smart, autonomous systems that use computer-based algorithms to monitor and control physical things like machinery, robots, and vehicles. IR 4.0 makes everything "smart" – from smart manufacturing and factories to smart warehousing and logistics. To maintain Malaysia's competitiveness in the global arena as an industrialised nation, IR 4.0 must be a significant part of

any company's digital transformation and advanced manufacturing technologies.

Realising the importance of IR 4.0 as a value-added knowledge and skill for electrical engineering students to have a better chance of employment, the Corporate, Industrial Services and Employability Center (CISEC), Seberang Perai Polytechnic (PSP) organised the Industrial Advisory Committee 2021 talk. The online event was held on 23 June 2021 from 9.00 am to 1.00 pm involving 200 Semester 4 and Semester 5 students from the Diploma in Electronic Engineering (Communication), Diploma in Electronic Engineering (Computer), and Diploma in Electrical & Electronic Engineering.



The objectives of the talk were to prepare students to understand new challenges in IR 4.0, assist students in preparing for industrial training and create a network of cooperation and collaboration between PSP and the Industry Advisory Panel (IAC). The guest speaker for the talk was Tuan Noorazidi bin Che Azib, Deputy Vice President (Operation Technology Strategic Program) from Inari Technology Sdn Bhd.

The feedback from the participants showed that they gained considerable knowledge regarding the growing trend towards automation and data exchange in technology and processes within the electrical engineering field and the benefits and challenges of IR 4.0. Through the talk, participants realised there is a demand for

skilled workers such as in artificial intelligence software (AI), big data and AI analytics, cyber-physical systems, Internet of Things (IoT), autonomous robots and cybersecurity. Thus, PSP students need to increase the knowledge and skills in these areas to enter the workforce after graduating.



## UAV/ DRONE PILOT ACCREDITATION, MAINTENANCE AND REPAIR TRAINING PROGRAMME

A smart collaboration with Unmanned Aerial Vehicle (UAV) or drone experts from the Malaysian UAV Drone Activists Association (MUDAS) is set to make Seberang Perai Polytechnic (PSP) a comprehensive drone technology training centre in the future. As one of the Technical Education and Vocational Training (TVET) institutions, PSP is committed to and focused on providing training or programs that can produce highly skilled and experienced human capital in drone technology.

Through collaboration with MUDAS, a training framework is developed by PSP lecturers to boost further training related to the use of drone technology. PSP will

become one of the northern zone's major drone training and maintenance centres.

Drones are widely used in several sectors, including agriculture, security and infrastructure inspection; thus, a knowledgeable and highly skilled workforce handling the machinery is much needed.



As the organiser, PSP has taken the initiative to expose participants to the knowledge of drone operation involving technical, legal, maintenance and safe methods of drone flight. Therefore, a training programme on UAV/Drone Pilot Accreditation and Maintenance and Repair of UAV/Drones was held from 29 March to 6 May. Twenty participants from Penang Port Sdn. Bhd. staff and Seberang Perai Polytechnic lecturers completed the 28-day training. To ensure

the effectiveness of the training, participants were exposed to various aspects of training, including lectures, video presentations, simulators and field practical training. The training program was organised by the Training and Further Education Unit (ULPL) and the Centre of Technology (Logistics) from Seberang Perai Polytechnic in collaboration with MUDAS (Malaysia UAV Drone Activist Society).





## SCHOLARSHIP BY PKT LOGISTICS TO PSP STUDENTS



To further strengthen the cooperation between PKT Logistics Sdn Bhd and Seberang Perai Polytechnic (PSP), PKT Logistics has agreed to offer Special Scholarships to students from Diploma in Logistics and Supply Chain Management Programme. The scholarship briefing was held at Peninsula College in Batu Kawan Industrial Park, Penang, on 17 April 2021.



The briefing was chaired by the Chief Executive of Peninsula College, Ts. Tung Chee Kuan, who represented Dato' Dr Michael Tio, CEO of PKT Logistics Group Sdn Bhd. Dato'

Dr Michael Tio has been appointed as one of the Seberang Perai Polytechnic Industry Advisory Committee.



The Director of Seberang Perai Polytechnic, Sr. Harith Fadzilah bin Abd Khalid, Nor Hasni binti Haron (Deputy Academic Director), Hawariah binti Kamaruddin (Deputy Director of Academic Support), Ts. Mohamad Fadzil bin Hj Basir Ahmad and Sharipah Khadijah binti S. Hashim were present during the briefing.

## INNOVATION COMPETITION 2021 (INNOCOMP21)

The Department of Electrical Engineering has organised the Innovation Competition 2021 (INNOCOMP21) for final semester students. The objective of the competition was to encourage Seberang Perai Polytechnic students to apply theoretical knowledge to practical situations and to produce projects that can provide added value to the polytechnic, community, industry and country. The competition was held virtually using Microsoft Teams and YouTube from 17 to 22 June 2021, in line with the requirements of social distancing due to the COVID-19 pandemic. The judging panel for the 2021 Innovation Competition was En. Kamil Adlee Abd Manan, senior engineer at Inno Instrument Sdn Bhd, and En. Mustafa

Mohd Saad, manager at M Seventy Power Solutions.

Six students from the Diploma in Electronic Engineering (Communication) and Electrical and Electronics Engineering participated in the competition. Raja Hadif bin Raja Zuhairi from Diploma in Electronic Engineering (Communication) won the gold award, followed by Rezaril Allif bin Razali from Diploma in Electrical & Electronic Engineering (silver award) and Muhammad Daniel Dol Baharin from Diploma in Electronic Engineering (Communication) (bronze award).

## MMU-VEX ROBOTICS COMPETITION 2021 (MVRC)

To cultivate and expose our youth to science and engineering creativity through robotics practice and applications, Electrical Engineering Department sent three teams to compete in the MMU-VEX Robotics Competition (MVRC 2021) organised by Multimedia University (MMU) virtually on 13 September 2021.

There were three categories for the competition: Category A for Form 1 to Form 3 students, Category B for Form 4 to Form 6 students, and Category C for Pre-U students. Each team comprising 2-3 students and one advisor was required to develop a programme to solve the Wall Maze using VEXCode VR before the competition day.

One hundred forty-one teams from 55 secondary schools and polytechnics in Malaysia participated in the competition. The competition was also jointly hosted by the Faculty of Engineering and Technology (FET), Robotics Club MMU Melaka, the Student Enrolment Office (SRO), and Innovation First International (Hong Kong) Ltd.

VEXCode VR is a web-based platform that allows the user to code a virtual robot using a block-based coding environment. During the competition, the virtual robot must complete the maze within one minute. Before reaching the end zone, the virtual robot can go to different checkpoints in the maze and put the marks to collect score points. The maze had eight checkpoints with



different score points, and the teams with the highest scores won the competition.

In July 2021, MMU Robotics Club provided VEX Code VR Workshop to the participants, and five online quizzes were given after the workshop. For each category, four Merit Awards were awarded to the teams that achieved outstanding performance during online quizzes. In addition, Excellence Awards were also given to creative teams and exemplified overall excellence in building a high-quality programme. For the award, the participants were required to submit a report and a presentation video, and develop a programme that optimises the trash collection at the coral reef with limited battery consumption.

The Award Presentation and Closing Ceremony of MVRC 2021 were held on 15 September 2021. Prof. Dato' Dr Mazliham Mohd Su'ud, the President of MMU, announced the competition's winners. Also present were Mr Zambri Pawanchik, Vice President of Strategic Marketing, Admission and Recruitment (SMART) and Prof.

Dr Wong Eng Kiong, Vice President of Student Experience and Entrepreneurship Development (SEED). The event was live-streamed on MMU Malaysia's Malaysia's Facebook page and YouTube Channel.



The PSP team led by Ts. Addzrull Hi-Fi Syam bin Ahmad Jamil and the students; Low Khai Thing, Khor Chun Leong and Siti Fatimah Azzahrah binti Roslan emerged as the overall champion for Category C being the winner in the Wall Maze category, Excellence Awards (Coral Reef Clean-up) category and Merit Award (online quiz) while a team lead by Mohd Asyraf bin Mohd Arshad and the students; Peh Jia Jin, Sim Teng Hong and Bong Yi Fat begged the consolation prize.

## COMMUNITY OUTREACH PROGRAM MONITORING STUDENT ADMISSION TO PSP CAMPUS

To prevent the spread of Covid-19 among students, Seberang Perai Polytechnic (PSP) management has implemented several standard operating procedures (SOP) to ensure students' comfort and safety on campus. Therefore, to ensure the registration process of student admission to PSP and residential colleges was conducted in a safe

manner, the PSP management has divided the students' entry into three phases. The first phase started on 15 October 2021. The second and third phases were conducted in November and December 2021. One thousand nine hundred six new and senior students were involved in the three phases.



The registration process for the three phases was carried out at students' hostels with the assistance of the Malaysian Volunteer Department (RELA). Before students were allowed to register, students performed a Rapid Antigen Test (RTK), which is monitored by a PSP Medical Officer. Guardians or parents drove to the registration centre, but only students could get out of the vehicle and complete the registration. The PSP management sets all these SOPs to ensure the registration process runs smoothly.

Director of Seberang Perai Polytechnic, Sr. Harith Fadzilah bin Abd Khalid; Head of Crime Prevention and Community Safety Department of Penang, YDH SAC Mohd Nasri bin Omar; Seberang Perai Tengah District Police Chief YDH ACP Shafee bin Abd Samad, were present with several PDRM officers to monitor and ensure the registration process and admission of students to residential colleges followed the stipulated SOPs.



## MALAYSIAN POLYTECHNIC AND COMMUNITY COLLEGE NEWSCASTING WEBINAR & COMPETITION 2021

Student Recruitment and Development Division (BAPP), Department of Polytechnic Education and Community Colleges (JPPKK), as the organiser and Seberang Perai Polytechnic as the host, have conducted the POLYCC Newscasting Webinar & Competition 2021.

The program involved 40 participants with 25 accompanying lecturers from 17 polytechnics and eight community colleges throughout Malaysia which took place virtually from 6 to 23 October 2021. The programme was BAPP effort to find,

guide and promote polytechnics and the community colleges' students' talents.

The programme aimed to improve student's English communication skills and self-confidence. These soft skills are essential because the dynamic job market emphasises the graduates' quality to remain competitive. The programme was done in a broadcasting concept, as broadcasting is relevant in Malaysia and has become one of the mediums of choice in social network interaction.



The POLYCC Newscasting programme was divided into several stages, starting with a webinar session on 6 and 7 October. During the webinar session, participants were exposed to the ethics of journalism, camera-facing techniques, news delivery, hosting and techniques of reporting news from live locations.

The participants were fortunate because they had the opportunity to get exposure to the world of broadcasting from professional speakers who were no strangers to the world of Malaysian broadcasting. Mrs Ezreena Amir Hamzah, TV3 News Reader; Mr Ramzan Mohd Saufi, TV3 News Reader; and Mrs Zaira Sri Zakaria, TV9 News Reader, were the speakers and the judges of the programme.

As for POLYCC Newscasting competitions, 40 participants submitted a news reading video for the preliminary round on 14 October. The

announcement of 20 participants for the semi-finals was posted on Telegram on 19 October.

The semi-finals and the final round competition was held on 21 October. Among the activities evaluated in the semi-finals and final round competitions were the news reading production videos and the presentation of live news reports. The winners of POLYCC Competition 2021 were announced during the closing ceremony on 23 October 2021.



## NATIONAL HERITAGE NETWORKING PROGRAM AND UNESCO (JIWAKU 2021)



The Student Recruitment and Development Division (BAPP), Department of Polytechnic Education and Community Colleges (JPPKK), as the organiser and Seberang Perai Polytechnic (PSP), as the host of the National Heritage Network and the United Nations Educational, Cultural and Scientific Organization (UNESCO) programme or JIWAKU Polytechnic and Community College 2021. The programme was conducted online from 21 to 27 October 2021.

JIWAKU is part of JPPKK's efforts in preserving, expanding and revitalising the cultural heritage of the states in Malaysia in line with the National Cultural Policy to strengthen the unity of the nation and country through culture. The JIWAKU has been going on for the past ten years with a culture in education concept by JPPKK. The objective of JIWAKU are to expose polytechnics and community college students and staff to knowledge

that cultivates their identity as Malaysians who love the country through culture, arts and heritage. In addition, programmes in JIWAKU strengthen the friendship and unity of students and officers from all Malaysian Polytechnics and Community Colleges. At the same time, the programme was vital in producing the marketability of graduates who, in turn, would form a balanced human capital that guarantees the country's development.

A total of 162 students from 25 polytechnics and three community colleges throughout Malaysia participated in JIWAKU 2021. As the host, PSP introduced the World Heritage Sites in Penang, culture and arts found in Penang. The activities were Gedung Cak and Bunga Puduk Traditional Cake Workshops, Virtual Tours Around UNESCO Heritage Sites, Boria Workshops and Gedung Cak Cake Preparation Video Competition. The Gedung



Cak Cake preparation video competition was jointly organised by Penang and Kedah's National Culture and Arts Department (JKKN). A total of 31 video entries for the Gedung Cak Cake Preparation competition were received. Kuala Kangsar Community College (KKNK) dominated the competition when two of its students, Sharifah Annis Wafa Syed Munir Wafa and Nur Hani Arissa Mohd Ibrahim were chosen as the champion and runner-up, while Nurshahira Hazaman from Kuching Sarawak Polytechnic begged the third place. The Best Performance category belonged to Muhammad Waieudin Syafiq Sabri from Ibrahim Sultan Polytechnic (PIS), Johor.

The Closing Ceremony of JIWAKU 2021 was officiated by the Director General of JPPKK, YBrs. Ts. Zainab binti Ahmad. JIWAKU 2021 has promoted PSP as the institution that supports arts, culture and community diversity in Penang.



## NATIONAL VIRTUAL PITCHING COMPETITION 2021 (NVPC)

Seberang Perai Polytechnic students Chan Ai Nim dan Ng Xin Rou of the Diploma in Accounting clinched second place in the social entrepreneurship category with "Safe Pocket Hand Sanitizer" while Muhammad Bin Mohd Idrus dan Muhammad Ashraf bin Mat Rozei clinched fourth place in fashion and accessories category in National Virtual Pitching Competition, (NVPC 2021). Under the guidance of MPU22012 Entrepreneurship course mentors Puan Isratun Binti Idris and Puan Hasmiza Binti Taib, the students walked away with cash prizes, trophies and certificates.

Held on from 18 October to 3 November 2021, the National Virtual Pitching Competition 2021 (NVPC) was organised by the Student Recruitment and Development Division (BAPP), Department of Polytechnic Education and Community Colleges (JPPKK). The competition was hosted by Polytechnic Sultan Haji Ahmad Shah (POLISAS), Kuantan.

The nationwide competition saw 395 video submissions from polytechnics and community colleges throughout Malaysia from 18–29 Oct. The judging session was held on 1–3 Nov 2021 by 22 judges comprising local university lecturers and Mara skills colleges led by Dr Umar Hayat Abdul Kohar, Deputy director of the Centre for Entrepreneurship, Universiti Teknologi Malaysia (UTM). Seven categories were contested: food & beverage, fashion & clothing, ICT, services, social entrepreneurship, agrotechnology & aqua technology, and innovation & technology. The theme for the year was "talented, creative & innovative".

The objectives of the competition were to develop and produce confident and skilful students in public speaking, product and business pitching and to provide opportunities for students to present and highlight business project ideas to outsiders or potential investors.

## PRIZE PRESENTATION CEREMONY AND TALK BY THE DEPARTMENT OF ENVIRONMENT (DOE), PENANG



The prize presentation ceremony of the short video competition of the invention from waste materials was held at the Jed Seminar Room, Library Building, Seberang Perai Polytechnic, on 16 November 2021. The ceremony aimed to award 19 winners comprising PSP students in conjunction with National Environment Day 2021, organised by Smartgreen PSP and the Department of Environment (DOE), Penang.

Students were required to produce a short video of them inventing using waste materials. The competition was open to all students of Higher Education Institutions in Penang. A total of 36 students from the Department of Electrical Engineering (JKE), Seberang Perai Polytechnic, under the guidance of Ts. Dr Segar Rajamanickam participated in the Video Invention Competition.

The competition was divided into two categories: individual and group. The

Director of DOE Penang, Sharifah Zakiah binti Syed Sahab, presented the winning prize. Also present was the director of Seberang Perai Polytechnic, Sr. Harith Fadzil bin Abd Khalid.

DOE staff also shared their expertise by giving a talk on the dangers of motorcycle smoke emissions. Hopefully, this talk will attract and provide awareness and understanding to the students on the efforts of Smartgreen PSP to foster awareness among students in the preservation and conservation of the environment.





## 20TH PSP CONVOCATION CEREMONY



The PSP convocation ceremony, usually held in August every year, was postponed in 2020 due to the spread of the Covid-19 pandemic. Thus, the 20th convocation ceremony for PSP graduates for three sessions: June 2019 session, December 2019 session and June 2020, was conducted in a hybrid manner from 18 to 20 December 2021.

A total of 1879 students from three sessions received their diplomas. To date, Polytechnic Seberang Perai has produced 34 209 graduates. During the ceremony, three graduates were named as Recipients of the Director's Award, Muhammad Azamuddin bin Abu Bakar (Diploma of Information Technology (Digital Technology) for the June 2019 session; Zulkarnain bin Ibrahim

(Diploma of Mechanical Engineering (Plant) for the December 2019 session; and Mimi Syahirah binti Roslan (Diploma of Electrical and Electronic Engineering) for the June 2020 session.



## PENANG INTERNATIONAL INVENTION, INNOVATION AND DESIGN 2021 (PIID 2021)

Seberang Perai Polytechnic (PSP) students' projects titled Gas Leakage Detector with Pressure Gauge and IoT Pet Feeder were awarded the silver medal, while Wireless Grass Cutter and Integration of Existing Wind Turbine System with Solar System (Hybrid) were awarded the bronze medal in Penang International Invention, Innovation and Design 2021 (PIID 2021) competition. The projects were supervised by Aslina binti Arbain, Norfariza binti Abdullah, Kamarul Ariffin bin Abd Rashid and Huzaimi bin Md Hussin respectively.

The PIID 2021 competition was held virtually from 10 to 11 March 2021 in line with the requirements of social distancing due to the COVID-19 pandemic. The theme for the year was "Engaging and Empowering Mankind Towards Scientific Revolution".

The competition was co-organised by the Research Management Unit and Department of Computer and Mathematical Sciences Universiti Teknologi MARA, Pulau Pinang branch, with strategic partners and collaborators, namely Pulau Pinang State Education Department, Pak Mat Western Sdn Bhd., Malaysian Institute of Chemistry (Northern Branch) and Malaysia Green Building Council Northern Chapter.

The competition received 392 participants (locally and internationally) in four categories: Category A, specifically for school students; category B, for university students; category C, for academicians; and Category D, for industry players. All categories were judged by three professional judges, a combination of academicians and industry players from various sectors.





## SEBERANG PERAI POLYTECHNIC INDEPENDENCE MONTH CELEBRATION



organized programs even though the programs are conducted online.

The closing ceremony for the PSP level independence month celebration was held on 13/9/2021 at 9pm online and officiated by PSP Director, Mr. Sr. Harith Fadzilah bin Abd. Khalid. Heads of departments, heads of units, lecturers, MPP ranks and all competition participants joined together to enliven the closing ceremony where the highlight of the ceremony was the announcement of the winners for the two competitions organized throughout the month of independence. The ceremony ended with chanting 'Merdeka' three times to commemorate this historic event and instill the spirit of love for the country.

The Student Representative Council (MPP) in collaboration with the Student Affairs Department (JHEP) of Seberang Perai Polytechnic holds the independence month celebration program from 12 August to 13 September 2021.

The objective of the program was to give the opportunity to students to celebrate independence month despite not being on campus due to the covid-19 pandemic. There are two types of competitions organized to celebrate this independence month, namely the Independence Photography Competition and the Independence Quiz Competition. A total of 137 students participated in these two organized programs and it is clearly proven that Seberang Perai Polytechnic students are always proactive and interested in participating in the



## INTERNATIONAL CONFERENCE OF RELIABLE INFORMATION AND COMMUNICATION TECHNOLOGY 2021 (IRICT 2021)

The conference was held on 22 - 23 December 2021 organized by the Yemeni Scientists Research Group (YSRG), in collaboration with Behavioral Informatics Research Group (INFOBEE) in Universiti Teknologi Malaysia (Malaysia) and College of Engineering, IT and Environment at Charles Darwin University (Australia).

PSP has won the *Best Paper Award* at the conference. The award was given to the writing entitled "Design of Test Data Generation Method for Dynamic – Functional Testing in Automatic Programming Assessment using Flower Pollination Algorithm" by Puan Nurhidayah binti Mokhtar who is also a lecturer in the Department of Information and Communication Technology.



Automatic Programming Assessment (APA) is one of the vital methods that has been applied around Computer Science education in realizing automated marking and grading on students' programming exercises or assignment. APA is fundamentally relying upon a test generation process to perform a dynamic testing. Recently in Software

Testing (ST) research, it has been proven that the adoption of any Meta-Heuristic Search Techniques (MHSTs) is able to improve the efficiency of generating adequate and optimal test data.

This paper propose a method of generating and locating an adequate test data with optimal in size by adapting a MHST to satisfy the dynamic-functional testing in APA (or is called DyFunFPA-TDG method). This paper also focus on revealing the design of the method with a sample of the generated test cases to be used in APA.

This method able to assist educators of elementary programming courses to provide the means of deriving and generating adequate test data with optimal in size regardless of having the expertise in specific knowledge of test cases design.



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In 2021, two JTMK projects have received a Protected Copyright certificate under the Malaysian Intellectual Property Corporation. The two projects are Dyslexia Training Apps and ASD Daily Routine Apps. The ASD Daily Routine Apps project consists of Mohd Azrul Afiqah bin Zulrimi, Nur Insyirah binti Ramlan and Nurul Nadhirah binti Jamhari. While the Dyslexia Training Apps project is the result of the work of the group Muhammad Haris Haikal bin Jainuddin, Muhammad Hilmi bin Zaipulazmar and Syed Ali Farhan Shahabudin bin Syed Alwi Shahabudin.

The 'Dyslexia Training App' designed to provide training for children with Dyslexia. Children will learn skills such as knowing words, numbers, and writing by using this app. Indirectly, will allow them to gain a lot of training, which will help them progress in academic. Both projects are under the supervision of Puan Nurhidayah binti Mokhtar.

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Application No.	LY2021P03567	Category of Work	Literary
Application Date	21 SEPTEMBER 2021	Date of Creation/Production	17 September 2021
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Page 1 of 1

The IT ASPIRE development process also goes through a review process from reviewers who are experts in various fields led by Ts. Dr Zulhadi bin Zakaria and external reviewers from UKM, UTHM, OUM, PSA, PTSB, POLIMAS, PNS, PTSS and KKKS. The editorial group for IT ASPIRE are Norbahiah Zakaria, Virakwan a/p Hai Kelian and Rosmawati Jaafar.



## DIGITAL ENTREPRENEURSHIP TALK: AN IRRESISTIBLE BUSINESS METHOD IN YEAR 2021



A talk program entitled Digital Entrepreneurship: An Irresistible Business Method in Year 2021 was conducted under the auspices of the Business Studies Diploma Program, Department of Commerce on March 26, 2021. This four hour program was attended by 77 semester 4 students of the Business Studies Diploma Program.

The objective of this program is to give exposure to students about online business as well as share knowledge about the characteristics that must be present to

be a successful entrepreneur. In addition, students also had the opportunity to listen to the sharing of the success secrets of three successful entrepreneurs who were invited to be speakers in the program.

The guest speakers are Nur Adilah binti Mohamed Rosli who is the Managing Director of Young Living, Ir Ts Shahrul Azhar bin Mustaffa who is the Managing Director of Maryam Khadijah and Nur Eliza binti Mokhtar who is the Managing Director of Nurraysa Business.

## ACADEMIC JOURNAL - IT ASPIRE



IT ASPIRE Department of Information and Communication Technology has been successfully launched in 2021, which contains four areas of specialization namely;

Internet of Thing (IOT), System Software, Mobile Application (Apps) and Augmented Reality (AR). The publication of IT ASPIRE is a collection of project reports by students who carry out a final project with a supervisor.

IT ASPIRE's objectives were to increase JTMK's research and publication in order to meet MQA requirements, besides encourage studies and researches among final-year students and lecturers. In addition, it provides a platform for students and lecturers to participate in creative and innovative competitions.



## TVET RESEARCH AND INNOVATION COLLOQUIUM (LOGISTICS) 2021 [CTVETRIL21]

The Center of Technology (Logistics) in collaboration with the Seberang Perai Polytechnic Research, Innovation and Commercial Unit has organized the 2021 TVET (Logistics) Research and Innovation Colloquium (CTVETRIL21) on 28 and 29 October 2021. A total of 22 researchers and presenters from the field of Logistics and Supply Chain and Social Sciences participated in this colloquium. All research reports received by the CTVETRIL21 secretariat go through a process of review and evaluation by research experts.

has been arranged by the secretariat during the 2-day period. The panels that were appointed to evaluate the research papers were invited again to be the presentation evaluation panel on both dates. The panels are Prof. Associate Dr. Che Ghani bin Che Kob and Prof. Associate Dr. Mohd Nazir bin Md Zabir from Sultan Idris University of Education, Ts. Dr. Md Baharuddin bin Abdul Rahman from Universiti Sains Malaysia, Dr Fariza binti Ahmad Mahyadin @ Mahidin and Prof. Associate Dr. Herman Shah bin Anuar from Universiti Utara Malaysia.

Two research papers have been selected to be awarded as the best research paper writing in Logistics and Supply Chain field and Social Science field. There were Sharipah Khadijah binti S. Hashim and Nurhashimah binti Muhamed Fauzi. Meanwhile, two presenters were selected as the best research presenters; Irdawati binti Kamarudin as the best presenter in the field of Logistics and Supply Chain and Isratun binti Idris for the field of Social Sciences. All research papers that meet the CTVETRIL21 writing criteria are selected to be published in the C@Log Digest 2021 research book published by Seberang Perai Polytechnic.



All of this research presented in the colloquium according to the session that



## STRENGTHENING DIGITAL LITERACY AMONG STAFF

The Business Studies Diploma Program has organized a series of workshops to improve digital competence among staff. A total of four series of programs based on digital

technology were held between March 5, 2021 and March 26, 2021. The following are the workshops that have been conducted during that period.

No	Name of the Workshop Series	Date	Guest speaker	Participant Number
1	Using Google Jamboard Apps for Interactive learning and teaching session	05.03.2021	Puan Wan Nor Asmah Bt Arshad (IPG Penang)	16
2.	Producing learning materials for teaching and learning session using TikTok Apps	12.03.2021	Puan Wan Nor Asmah Bt Arshad (IPG Penang)	16
3.	Utilizing Microsoft White-board for interactive session with students	19.03.2021	Dr. Rohani M.M Yusof (JP PSP)	16
4	Organizing webinar using OBS platform	26.03.2021	Pn. Darni binti Darmin (PSAS)	16

## SOCIAL ENTREPRENEURSHIP IN LEARNING ENVIRONMENT

The Polytechnic Entrepreneurship Unit in collaboration with the Commerce Department PSP has organized an online webinar using the Zoom platform and MS Teams entitled Social Entrepreneurship in Learning Environment on 21, 22, 25 and 28 October 2021.

This webinar was officiated by the Director of the Polytechnic, Sr. Harith Fadzilah Bin Abd Khalid and was attended by 300 students.

This 4-day program allows students listen to experiences by guest speakers who are successful entrepreneurs. Students also have the opportunity to develop their own business plans with the guidance of guest speakers. On the last day of the program, participants present their Business Plans and six groups have been selected to receive the best Business Planning Award. A certificate of participation given to all students who attend the webinar.



## WEBINAR – LOTUS'S BEST PRACTICES IN WAREHOUSE & SUPPLY CHAIN MANAGEMENT IN THE RETAIL INDUSTRY

Diploma in Logistics and Supply Chain Management Program (DLS) Seberang Perai Polytechnic conducted a webinar entitled Lotus's Best Practices In Warehouse & Supply Chain Management In The Retail Industry on 21 July 2021.



This online webinar aims to provide information to 93 Logistics and Supply Chain program students and 63 Business Studies Diploma students about the operations of Lotus's Store (M) Sdn Bhd, formerly known as Tesco Sdn Bhd. Students also have the

opportunity to interact with guest speakers to obtain information about the training opportunities provided by the company to students and graduates. The guest speaker of this program is Mr Yee Weng Soon who is the Project Manager and Logistics Revenue at Lotus's Store (M) Sdn Bhd in Bandar Menjalara, Kuala Lumpur.

Overall, students gave positive feedback on the progress of the program as well as the achievement of the program's goals.



## WEBINAR IN LOGISTICS AND SUPPLY CHAIN MANAGEMENT 2021-LINKING ACADEMIA WITH INDUSTRY

Seberang Perai Polytechnic Logistics and Supply Chain Management Diploma Program organized a Webinar in Logistics and Supply Chain Management 2021-Linking Academia with Industry on October 26 to 27, 2021. The

main objective of the program is a knowledge sharing based on the requirements of the Diploma Program syllabus Logistics and Supply Chain Management at the Polytechnic. Seven slots have been arranged

where five slots are knowledge sharing from logistics experts about terms, concepts, principles and methods of logistics and supply chain management. The remaining two slots are interactive slots between students and industry representatives.



A total of 500 students from semesters 1 to 5 from the Logistics and Supply Chain Management program at Seberang Perai

Polytechnic participated in this webinar. Among the panel of speakers invited to share knowledge is Dr. Fariza Ahmad Mahyidin @ Mahidin from Universiti Utara Malaysia, Dato Dr. Mohd Amin bin Mohd Kassim from Nuramin Sdn. Bhd., Abdullah Husaini bin Nazari from IKEA Supply (Malaysia) Sdn. Bhd., Tengku Shahiran bin Tengku Sukri from DGM Support (Malaysia) Sdn. Bhd., Nor Adila binti Razak from the Royal Malaysian Customs Department, Dato' Seri (Dr.) Michael Tio from PKT Logistics Sdn. Bhd. as well as Jason Cheah Seng Cheong, Siti Asma binti Yusoff and Major (PA) Kamal bin Jakarinah respectively from PKT Logistics Sdn. Bhd., Logix Express Sdn Bhd and the Civil Defense Force.

It is hoped that the knowledge shared in this webinar can be used by students to be more competent and competitive in facing the challenges of the real career world.

## WEBINAR – ENTREPRENEURSHIP: PHASING THROUGH CHALLENGING TIME

Entrepreneurship is a field that is now a key aspect in ensuring the survival of Polytechnic students throughout Malaysia. Based on the uncertain economic situation around the world today in addition to facing the Covid-19 pandemic, the entrepreneurial aspect needs to be instilled in every prospective graduate of Seberang Perai Polytechnic, especially to ensure that they are able to be independent and not just wait for a steady income career that is increasingly difficult to obtain. They need to be prepared with a positive and competitive personality so that they are always eager to try and willing to take risks. Entrepreneurship is a field that should be nurtured so that it integrates with students and eventually they themselves

become synonymous with activities related to entrepreneurship. Therefore, the Entrepreneurship Unit of the Mechanical Engineering Department felt called to hold a Webinar Program – Entrepreneurship : Phasing Through Challenging Time.





This program was implemented on the 20th of October 2021 through the Microsoft Team Platform aimed at providing awareness and understanding to students about the impact of Covid-19 on business in the new norm. Apart from that, this program has revealed the latest situation in the business world and how to face business challenges while the country is facing Covid-19. Since many traders are affected by the impact of Covid-19, this program is very suitable so that students will be more aware and ready to face challenges especially in the business they run.

This program was attended by 193 participants involving 4th and 5th semester entrepreneurship students of the Mechanical Engineering Diploma Program (DKM), Manufacturing Mechanical Engineering Diploma (DTP), Textile Mechanical Engineering Diploma (DMT) and Plant Mechanical Engineering Diploma (DJL) in the Department of Engineering Mechanical. Two speakers have been invited to share knowledge and experience in the field of entrepreneurship that they have ventured

into. The morning session activities were presented by the speaker Izhar Fahmi Bin Mohamad Supidin from the Setia Picture Studio company, while the afternoon session was presented by the speaker Hafizuddin Aqami bin Mohd Shahrinnizam from the HA Legacy Global Resources company.

Among the interesting topics are social entrepreneurship business ideas, marketing methods through Facebook, Instagram, TikTok and so on as well as sharing experiences of overcoming challenges in business during the Covid-19 pandemic. Overall, this relaxed program received a very good response from the participants and the speakers thought this program was very good because both parties could interact and exchange ideas while sharing business experience and knowledge. The average participant hopes that a similar program can be held periodically to give all participants the opportunity to understand the ins and outs of online business, especially because the sharing is given by speakers based on experience and not just theory.



## MALAYSIA PRIHATIN PROGRAM



This program is an initiative taken by the Government to provide information throughout the state in stages to inform the people about the importance of managing the Covid-19 Pandemic in the national economic recovery process. YB Dato' Dr. Mansor Othman, Deputy Minister of Higher Education delivered a special briefing on the government's initiative under the Malaysia Prihatin Program at PSP

Meanwhile, a briefing on the Covid-19 vaccine was delivered by a representative from the Seberang Perai Tengah District Health Office. This type of program is the second series that has been implemented at the Penang State level to provide information to the public about Malaysia Prihatin and the importance of vaccines. Also present are YBrs. Ts. Zainab Ahmad, Director General, Department of Polytechnic and Community College Education (JPPKK).





## EAST COAST FLOOD VICTIMS CONTRIBUTION PROGRAMME



The flood that hit the East Coast of Malaysia has threatened people's lives and disrupted local economy. The flood situation has led Seberang Perai Polytechnic to alleviate the burden of the local community. The Department of Information and Communication Technology (JTMK), in collaboration with RHF Harapan Enterprise, has organised the East Coast Flood Victims Contribution Programme from 6 to 12 January 2021.

Thirty-five JTMK staff and 16 representatives from RHF Harapan Enterprise were involved in the relief mission.



The mission's primary purpose was to help victims affected by the flood. Items such as daily necessities, basic food and clothing were donated. It was hoped that the programme ease the burden of the victims and strengthen the relationship between PSP and the community.



## YAPIEM'S 'READY TO EAT' PROGRAM

Yayasan Pembangunan Islam Malaysia (YAPIEM) in collaboration with the Department of Student Affairs, Seberang Perai Polytechnic held a program called YAPIEM's 'Ready To Eat' Program.

The first phase was on 18 November 2021 for 800 senior students and the second phase was on 9 December 2021 for 700 new students.

The assistance given was in the form of cooked food for the dormitory students. The director, Sr. Harith Fadzilah Bin Abdul Khalid was pleased to accompany YAPIEM North Zone Officer, Mr. Ahmad Bin Abdullah to deliver the contributions.



This program aims to assist Seberang Perai Polytechnic students who are less able and affected by the current pandemic situation. YAPIEM has been pleased to distribute donations to 1500 students who are divided into two phases.



## ZAKAT AID DISTRIBUTION CEREMONY TO ASNAF STUDENTS

A zakat aid distribution ceremony was held at the Islamic Centre, Seberang Perai Polytechnic (PSP), for 38 students from less affluent families (asnaf). The ceremony was held under the Standard Operating Procedure (SOP) set by the National Security Council (MKN). Only students who stayed in dormitories and have completed the quarantine process were allowed to attend to receive the zakat contribution.





The ceremony was one of the welfare assistance initiatives by the Department of Student Affairs (JHEP). The ceremony was held in the presence of the Director, Sr. Harith Fadzil bin Abd Khalid, Dr Nor Hasni binti Haron (Deputy Academic Director), Hawariah binti Kamaruddin (Deputy Director of Academic Support), Shuhaimi bin Samanul (Head of Student Affairs Department), Heads of Academic Departments, Public Relations Officers and lecturers.

The zakat distribution aids were from Bank Islam Malaysia Berhad (BIMB) and individual contributions. The aid was in the form of cash and food packs provided by PSP



## INFAQ RAMADAN PROGRAMME



In conjunction with the holy month of Ramadan, Seberang Perai Polytechnic (PSP) management has organised the Infaq Ramadan Program, "Jom Kongsi Rezeki", at the Islamic Centre, PSP, on 30 April 2021.

The purpose of this program was to ease

the burden of 94 recipients consisting of operations assistants, drivers, cleaning contract workers, and security guards in PSP. The Director of Seberang Perai Polytechnic, Sr. Harith Fadzil bin Abd Khalid presented the contribution.

## 'GOTONG ROYONG' SURAU HIDAYATUL BILAL



Department of Mechanical Engineering (JKM) conducted a 'gotong-royong' program of Surau Hidayatul Bilal on 29 September 2021.



This program was organized by the Mind Transformation Unit of Mechanical Engineering Department (JKM) and participated by 30 participants consisting of JKM lecturers as well as support officer. The

objective of implementing this program is to conserve, clean and cheer up the Hidayatul Bilal surau and its surrounding area so that it is more conducive after it has not been used for a long time because of Movement Control Order (MCO). In order to comply with social distancing, the participants were divided into several groups and briefed on the Standard Operating Procedure (SOP) that needs to be followed.





## ROBOT DONATION TO SEKOLAH KEBANGSAAN SUNGAI DURI ROBOTIC CLUB



In order to fulfill one of PSP's missions, which is to strengthen community through research, innovation and lifelong learning, PSP always strives to ensure that there is a good relationship between the institution and the community.

Therefore, a Robot Donation Ceremony was held on 22 March 2021 and was presented by YB Dato' Mansor bin Haji Othman who is the Deputy Minister of Higher Education, Ministry of Higher Education Malaysia. The presentation of the donation and the

handing over of the appointment certificate is a continuation of the collaboration program between the Department of Information and Communication Technology, Seberang Perai Polytechnic and Sekolah Kebangsaan Sungai Duri, Penang.

The purpose of this collaboration is to improve students' expertise in using technological equipment by building and creating robots, programming robots and sparking students' interest in studying Science, Technology, Engineering and Mathematics (STEM).



## Awards



## ACADEMIA DAY CELEBRATION 2021 - HONOURING HIGHER EDUCATION EDUCATORS



Recognizing lecturers' contributions and in conjunction with World's Teachers Day introduced by Unesco in 1994, the ministry of Higher Education has proclaimed Oct 5 as Academia Day and October as Academia Month. This special day honours educators at public and private higher education institutions, polytechnics, community colleges, teachers training institutes, matriculation colleges, as well as technical and vocational training institutes. The theme

of this year's Academia Day is "Empowerment of Academia, Enculturation of Digitalisation". This theme was chosen based on the higher education sector's management of the Covid-19 pandemic, whereby academia has had to change from face-to-face teaching and learning to open distance learning (ODL). In conjunction with the closing ceremony of PSP Academic Day 2021, four staff received the Academia Award for the following categories:

### Dr. Nor Hasni Binti Haron *Management Category*



- Recipient of the "Pingat Bintang Cemerlang Negeri" (B.C.N) from the Penang state government in February 2021.
- Recipient of the Volunteer Senior Assistant Commissioner Award (Associate) in 2020 by the Malaysian Volunteer Department, Ministry of Home Affairs in recognition of community service contributions.
- The Chairman of the OBE Unit and received Best Practice recognition in the evaluation of iPENA, JPPKK in 2020.
- The Chief Accreditation Coordinator of ETAC; PSP has received six years of accreditation for 7 Mechanical and Electrical Engineering programs for the years 2019 – 2024
- APACC Coordinator; PSP has successfully obtained GOLD in the APACC re-audit and became one of the 10 best institutions of APACC.
- Produced a scholarly book titled Information on Accounting and IKS Success.
- Produced a research paper in the International Journal of Accounting, Business and Finance 2020.

### Dr Mohd Pahmi bin Saiman *Research Category*

- Active in research activities including a reviewer of Polytechnic and Community College e-Journal research papers in 2021.
- Has successfully produced 5 researches, 11 writings and 4 innovations at the national and international level.
- Also received an award as a consultant for the research "Agromas Product Innovation (Pineapple Yarn)" from Tun Hussein Onn University in 2020.





**Mr. Mariappen A/L Gopalakrishnan**  
*Sports Category*

- Recipient of the “Pingat Jasa Kebaktian” (PJK) from the Penang State Government in 2021.
- Chief editor of the Proceedings of The International Conference on Emerging Trends In Engineering, Science And Technical Education in 2021.
- Won the bronze medal for the Sports Facilities Management System (SFMAS)-KIK product in 2021.



**Dr. Nur Azilina binti Abdul Aziz**  
*Lecturer Category*

- Appointed as an interview panel for the position of Higher Education Officer (PPPT) for peninsular Malaysia and also Sabah in 2021
- Has managed to produce as many as 13 writings in her field, which focuses more on the material.
- Involved as International Journal of Electroactive Materials Committee.

# Publications





## LIST OF PSP PUBLICATIONS

The following is a list of publications by Seberang Perai Polytechnic (PSP) lecturers across for the year 2021.

BOOKS TITLE	ISBN	WRITER/AUDITOR
PROSIDING KOLOKIU PENYELIDIKAN DAN INOVASI TVET (LOGISTIK) 2021	9789670783758	ZUHAIKRAH BT ABDUL HADI
1001 LINUX COMMAND	9789670783772	NORBAHIAH BINTI ZAKARIA
IP ADDRESSING AND SUBNETTING	9789670783765	TS. SAW BEE FONG
EXPRESS NOTE FOR MULTIMEDIA INTERACTIVE ELEMENTS AND HARDWARE	9789670783789	FAIZAL BIN MOHAMAD TWON TAWI
1ST SERIES INVESTMENT FROM ISLAMIC PERSPECTIVE	9789670783796	NORADILLA BINTI OSMAN
BLUEPRINT GUIDE TO SIGNAL AND SYSTEM	9789670783802	NUR ALINA ZUREEN BINTI ROSLI
COMPUTER ARCHITECTURE & ORGANIZATION : BASIC COMPUTER ARCHITECTURE & ARITHMETIC	9789670783819	AZURA BINTI HARON @ MAKTAR
POWER PLANT ENGINEERING 3	9789670783826	KUMARAN A/L SUNDRAJ
SOLAT	9789670783857	SITI NURFARHANA BINTI ZAKARIA
WORKSHOP TECHNOLOGY	9789670783871	NOR SYAKIROH BINTI TAJUDIN
TOOL DESIGN	9789670783864	SYAFIRUL IKMAR BIN SHAHARUDIN
CAD/CAM	9789670783833	SYAFIRUL IKMAR BIN SHAHARUDIN
OCCUPATIONAL SAFETY AND HEALTH FOR ENGINEERING	9789670783840	RUHIL NAZNIN BINTI AZAMAN
GRAPHS & CHARTS: A GUIDE FOR STUDENTS OF DUE50032	9789670783840	SABARIAH BINTI MOHD FAROUK
QUALITY CONTROL TOPIC 1	9789670783895	FAUZUREEN BINTI FUDZIL
WOVEN FABRIC STRUCTURE AND DESIGN	9789670783901	1. MOHD PAHMI BIN SAIMAN 2. AKMAL BIN UZIR
INTRODUCTION TO SUPPLY CHAIN MANAGEMENT	9789672774006	MARIATI BINTI BAHARUN

BOOKS TITLE	ISBN	WRITER/AUDITOR
ISLAMIC FINANCIAL SYSTEM VOL. 1	9789672774020	AZAHAR BIN MOHAMMED
BASIC MATERIAL HANDLING EQUIPMENT & SYSTEM	9789670783918	HASNIEZA BINTI MOKHTAR
INTRODUCTION TO WEAVING PROCESS	9789670783925	SOMASHANA A/L PRAKASAM
PRINCIPLE OF MACROECONOMICS	9789670783932	FARAH AZUA BINTI OTHMAN
COMPILATIONS OF MALAYSIAN TAXATION 1 PERSONAL TAXATION SMART	9789670783949	ROZANA BINTI CHE BIDI
ELEMENTS OF CONTRACT LAW	9789670783956	ROHANI BINTI M.M YUSOFF
FINANCIAL ACCOUNTING - LEASING AND BORROWING COST	9789670783963	DANIZAH BINTI CHE DIN
BASIC INTERNET SEARCHING TECHNIQUES & E-MAIL	9789670783970	MOHD SYUKOR BIN CHE OMAR
Pengenalan Kepada Sistem Komputer	9789670783987	FADLILHISHAM BIN AHMAD
STATISTICS FOR ENGINEERING MATHEMATICS	9789670783994	ANISAH BINTI AHMAD
BASIC CALCULATION FOR AC ELECTRICAL CIRCUIT	9789670783376	JUNAINAH BINTI ABD KADIR
TTBOT INOVASI PROJEK MENGGUNAKAN ARDUINO	9789672774037	AMIR BIN ABU BAKAR

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