



KEMENTERIAN PENDIDIKAN TINGGI
JABATAN PENDIDIKAN POLITEKNIK DAN KOLEJ KOMUNITI

TVET
DIGITAL
TALENT
TOMORROW

POLYCC
POLITEKNIK
KOLEJ KOMUNITI
MALAYSIA

Agenda Pembelajaran Digital

POLI DIGITAL

- LEARN
- INNOVATE
- COLLABORATE
- TRANSFORM



build · innovate · digitalise
for a productive malaysia

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Mazlaine Husain

DEPARTMENT OF POLYTECHNIC & COMMUNITY COLLEGE EDUCATION
MINISTRY OF HIGHER EDUCATION MALAYSIA

23 Sept 2026



POLYCCOfficial

www.polycc.edu.my



POLYCC
TVET For All

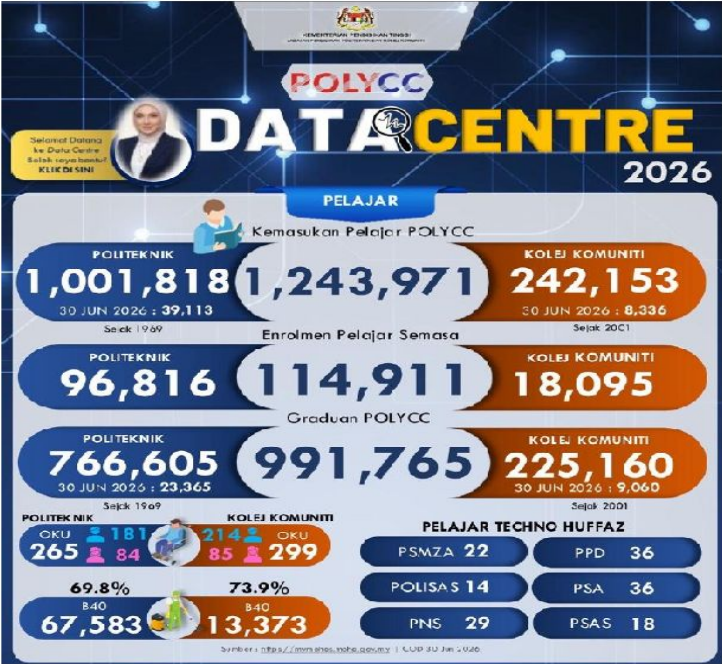
Kedudukan POLYCC



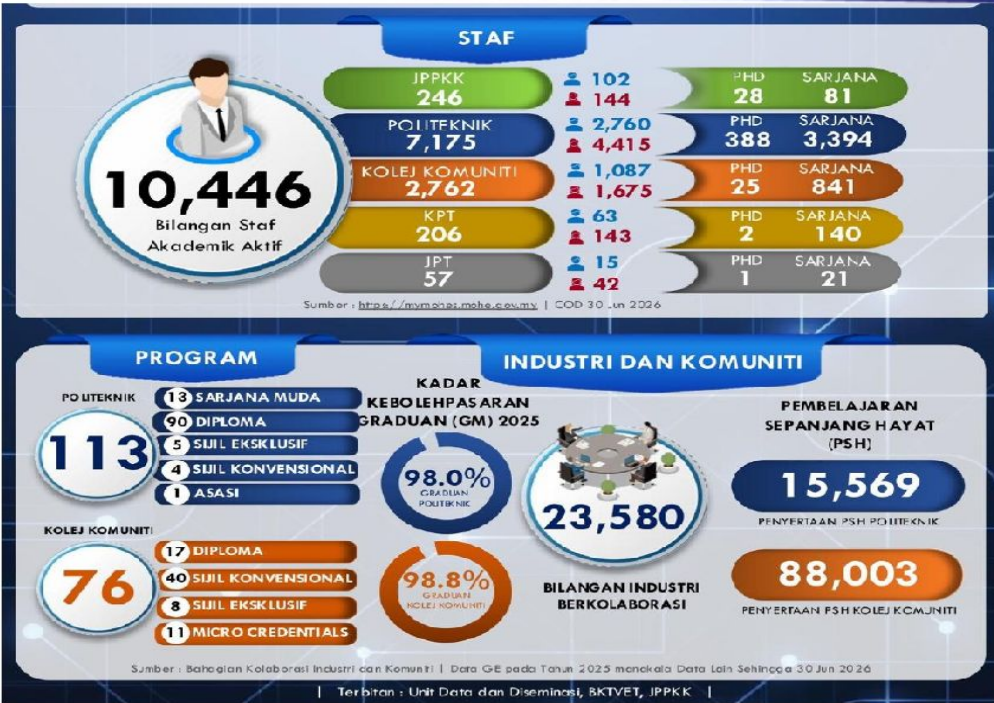
36 POLITEKNIK
106 KOLEJ KOMUNITI

Sumber: UDD BKT VET Januari 2026

Butiran Data Terkini



Lebih 1 juta Graduan POLYCC telah dihasilkan

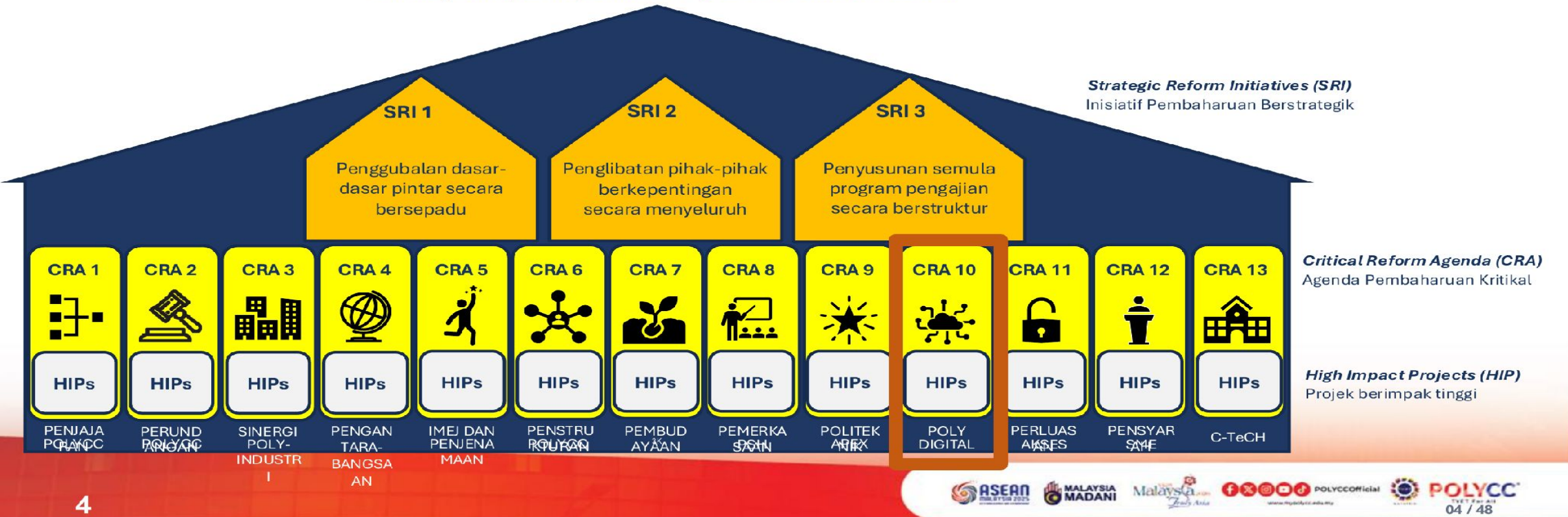


Program DITAWARKAN DIPERINGKAT SIJIL, DIPLOMA , SARAJANA MUDA
FUTURE MASA TERDEKAT : PEMBANGUNAN PROGRAM SARJANA DAN DOKTOR TVET.

KERANGKA TRANSFORMASI POLITEKNIK

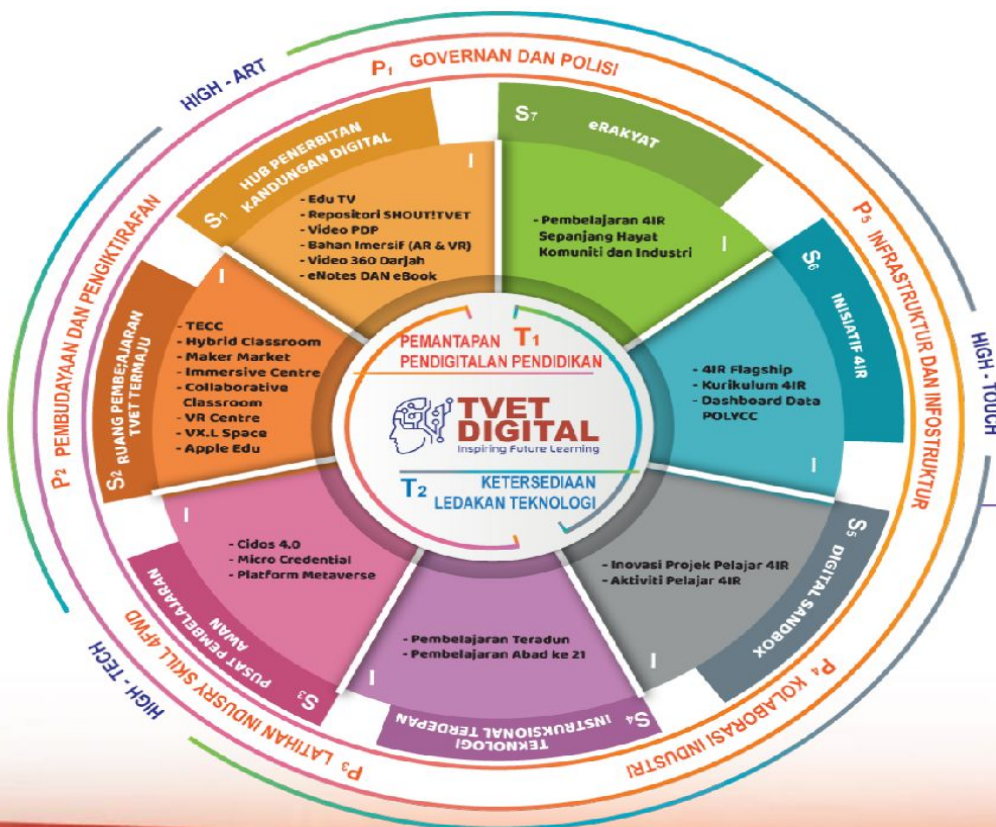
Matlamat 2035

- 300,000 enrolmen politeknik
- 50% daripada keseluruhan Diploma TVET Nasional
- GE sentiasa di atas 95%
- Purata pendapatan permulaan graduan RM3,000/bulan





MINISTRY OF HIGHER EDUCATION
DEPARTMENT OF POLYTECHNIC AND COMMUNITY COLLEGE EDUCATION



- 2 Teras **T**
- 7 Strategi **S**
- 21 inisiatif **I**
- 5 Stimuli **P**



INISIATIF POLI DIGITAL



LATAR BELAKANG MYGOVSCLOUD



KERAJAAN BERHASRAT MENAIKTARAF PUSAT DATA KERAJAAN (PDSA) SEDIADA KEPADA *CLOUD COMPUTING SERVICE* DIKENALI MYGOVSCLOUD

GOVERNMENT HYBRID CLOUD ADALAH SATU PROJEK KOMBINASI ANTARA PDSA (PUBLIC CLOUD) DENGAN CLOUD SERVICE PROVIDER CSP YANG DILANTIK KERAJAAN.

PROJEK RINTIS PERTAMA KERAJAAN DIBAWAH PROJEK GOVERNMENT HYBRID CLOUD YANG DIPILIH MAMPU ADALAH PROJEK CIDOS DENGAN MENGGUNAKAN AWS SEBAGAI CSP .



Garis Masa Transformasi Menunjukkan Pelaksanaan Berfasa Sokongan Kerajaan

Mei 2022 (Projek Rintis)

Projek rintis inisiatif Government Hybrid Cloud bersama AWS dan Radmik Solution (MSP).
Dilantik oleh MAMPU.

Mei 2025 (Penyambungan Projek)

Bukti komitmen dan sokongan berterusan Jabatan Digital Negara (JDN) sehingga Disember 2026.

Disember 2025 (Integrasi AI)

Kelulusan peruntukan baharu untuk peluasan skop berteraskan pengintegrasian teknologi Kecerdasan Buatan (AI).

2026 - 2027 (Peluasan ODL)

Sasaran ke arah pelaksanaan penuh Politeknik AI dan pembelajaran jarak jauh.

TEKNOLOGI CIDOS

PRESTASI TINGGI

- Memenuhi akses pengguna yang ramai
- Keselamatan yang tinggi
- Rangkaian berkelajuan tinggi
- Fleksibiliti teknologi
- Pengurusan kos yang efesyen

PENILAIAN DALAM TALIAN

- Teknologi *Proctoring*
- Mengawasi penilaian / peperiksaan secara online

MACHINE LEARNING

- Menganalisa data-data di dalam CIDOS dengan lebih tepat (berkaitan pengurusan pembelajaran)

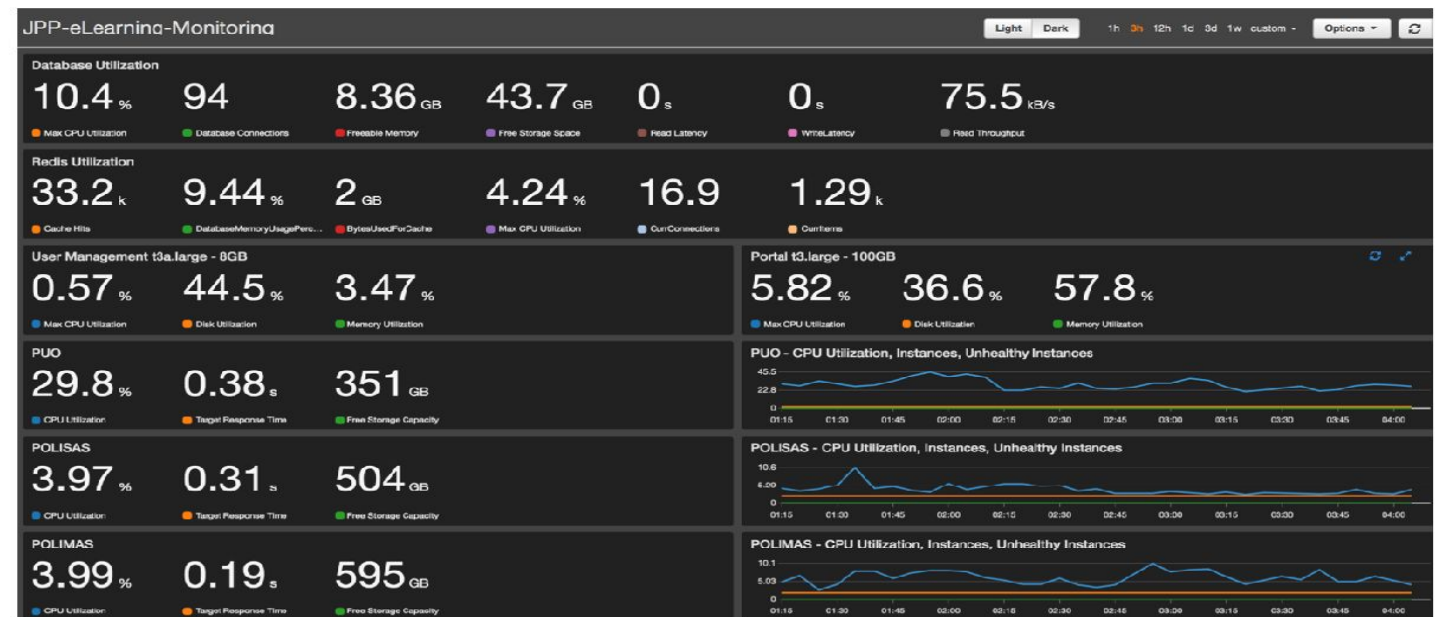
PERLUASAN SISTEM

- Perluasan CIDOS kepada 105 Kolej Komuniti seluruh Malaysia



TEKNOLOGI CLOUD WATCH MONITORING

- Teknologi *monitoring* secara langsung membolehkan setiap penggunaan *storage* dan *CPU utilization* dapat dipantau dan langkah awal dapat diambil bagi memastikan kelancaran sistem pada setiap masa. Mengelak kesesakan mengikut Politeknik dan Kolej Komuniti



FAKTOR KEJAYAAN

KOMITMEN

- Komitmen dan sokongan pengurusan tertinggi (JPPKK, KPT dan Jabatan Digital Negara)

KEWANGAN

- Sumber kewangan dari agensi MAMPU/ Jabatan Digital Negara

PERANCANGAN

- Perancangan dan pengurusan pelaksanaan sistem yang mantap

SUMBER MANUSIA

- Sumber manusia yang berkemahiran dan kompeten

PENGIKTIRAFAN



15 April 2025 | Putrajaya



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AWS collaborates with Malaysia Ministry of Higher Education's JPPKK to build next-generation AI workforce

by Jean Zhuang | on 28 OCT 2024 | in Amazon Bedrock, Amazon Machine Learning, Amazon SageMaker, Amazon SageMaker JumpStart, Artificial Intelligence, Asia Pacific, Customer Solutions, Education, Generative AI, Government, Higher education, News, Public Sector, Public Sector Partners, Responsible AI | [Permalink](#) | [Share](#)



PUBLIC SECTOR

AWS collaborates with Malaysia Ministry of Higher Education's JPPKK to build next-generation AI workforce

Resources

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[AWS for Education](#)
[AWS for Nonprofits](#)
[AWS for Public Sector Health](#)
[AWS for Aerospace and Satellite Solution](#)
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INISIATIF CLOUD COMPUTING- 1) LMS CIDOS



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DEPARTMENT OF POLYTECHNIC AND COMMUNITY COLLEGE EDUCATION

PENGENALAN CIDOS



Portal
<https://polycc.cidos.edu.my>

LEARNING
BEYOND
BOUNDARIES



- Centralized Information Document Online System (CIDOS) telah dilancarkan pada Tahun 2009.
- Pembelajaran teradun atau blended learning melalui kerangka Flipped Classroom telah digunakan di semua Politeknik.
- Pengguna CIDOS:-
 - 10,000 Pensyarah
 - 123 600 Pelajar
- Platform LMS CIDOS:-
 - 36 LMS Politeknik
 - 13 LMS Kolej Komuniti

DIGITAL
LEARNING
FOR A
BRIGHTER
TOMORROW



- **Pengkomputeran awan** digunakan **menggantikan pusat data** sedia ada untuk sistem pembelajaran digital LMS POLYCC (CIDOS 4.0). Justeru **pelbagai aplikasi AI** dapat digunakan dalam system pembelajaran digital ini. (36 Politeknik dan 105 Kolej Komuniti)



Blended
Learning
kursus
ditawarkan

Dashboard | Resume @ CIDOS | Courses | Padom PEO

LMS CIDOS @ Learning
POLITEKNIK PORT DICKSON
"Bersama Menuju Kecemerlangan"

FLUID MECHANICS
DJJ20073 - FLUID MECHANICS

Home | My courses | JABATAN KEJURUTERAAN MEKANIKAL | DIPLOMA KEJURUTERAAN MEKANIKAL | SESI 2023/2024 | DJJ20073 DD3

COURSE LEARNING OUTCOMES

Upon completion of this course, students should be able to:

1. Explain the fundamentals of fluids.
2. Solve problems related to fluid properties, fluid statics and fluid dynamics.
3. Organize appropriate experimental data and perform basic analysis of experimental results.

No.	Platform Name	Lecturer Name	Group Name	No of Students	Course Intro	eContent Forum/Discussion	Online Assessment	BBB	Group Blended Status	Blended
1	DUK3002_3	SHAFILDEN BIN ABU BAKAR @ SHUKRI	DESA-CBM33B	10	0%	100%	100%		Green thumbs up	Green thumbs up
1	DUK3001_3	WAN ROSDIAYU BINTI WAN MOHAMMAD WAN MOHAMAD NAWAWI	DKA2C	0	0%	0%	0%		Red thumbs down	Green thumbs up
	MPU23002_2			0	0%	0%	0%		Red thumbs down	Red thumbs down

Form calculation

Elements: Default value, Calculated value

Form calculation options: Cancel, Save

SAVE CHANGES **CANCEL** **FORM VERIFICATION ERRORS** **SHIFT AND CUSTOMISE** **CLOSE PREVIEW**

General options

Show calculated value on: Default from feedback

Decimal places in fields: 2

Minimum decimal places: 0

SAVE AND SHOW THE FORM OPTIONS

Advanced options

INISIATIF CLOUD COMPUTING- POLYCC AI BUDDY



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DEPARTMENT OF POLYTECHNIC AND COMMUNITY COLLEGE EDUCATION

TVET
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TALENT
TOMORROW

POLYCC AI BUDDY

Your
Learning Partner
Always Here

POLYCC AI BUDDY ADALAH AI ASISTANT YANG MAMBANTU PENSYARAH DALAM MEMBANGUNKAN KUIZ , MEENGANALISIS BAHAN PEMBELAJARAN DAN PELBAGAI BAHAN BANTU MENGGUNAKAN AI. MENGGUNAKAN AI AWS QUICK SEBAGAI BACKHAND



SMART
TEACHING



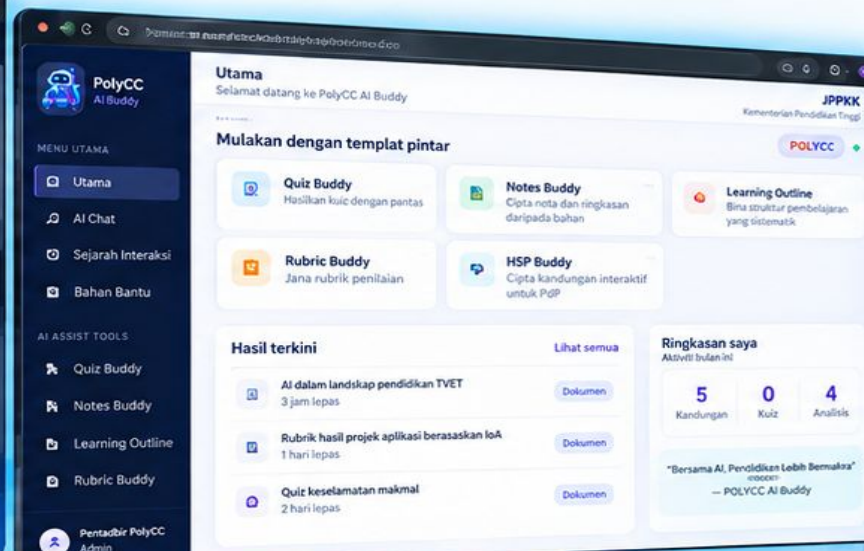
PERSONALISED
LEARNING



AI POWERED
PRODUCTIVITY



BUILT ON
AWS CLOUD



MEMPERKASA
PENSYARAH



MENINGKATKAN
PENGALAMAN PEMBELAJARAN



MENJANA KANDUNGAN
BERKUALITI



DIKUASAKAN OLEH
AWS CLOUD

INISIATIF CLOUD COMPUTING- MACHINE LEARNING RESULT PREDICTION



MINISTRY OF HIGHER EDUCATION
DEPARTMENT OF POLYTECHNIC AND COMMUNITY COLLEGE EDUCATION



BAGI MENILAI
PELAJAR DARI
SISTEM CIDOS DAN
MENGENALPASTI
PELAJAR YANG
PERLU DI BERI
PERHATIAN LEBIH
DAN POSSIBLE TO
PASS. LEBIH DARI
10 PEMBOLEH UBAH
DIGUNAKAN UNTUK
MEMBUAT
PENILAIAN



1 JPPKK Predictive Analytics Dashboard

List of potential students who have the possibility of passing or who need attention

Prediction

Student status

Programme

Diploma in Mechanical...

Predicted to Pass

151

Predicted to Fail

20

BL

The purpose of this system, student analysis to make it easier for lecturers to identify students who are likely to excel, as well as those who need extra attention. The analysis was based on 22 variables related to the students' backgrounds, academic performance, and attendance. The results, displayed in charts and tables, help lecturers to make fairer and more informed decisions, so that no students are left behind. It also supports the Ministry's goal of developing a more competitive and high-quality TVET workforce.

Academic Year

Semester

Programme

2024

1

All

Certification Matrix for Educational Support

Support Aspect	High (%)	Moderate (%)	Low (%)	Total Support
Financial Assistance	12.5%	35.0%	52.5%	63
Academic Support	28.0%	44.2%	27.8%	128
Counselling	18.9%	38.6%	42.5%	97
Digital Learning	45.2%	33.1%	21.7%	156
Soft Skills	22.1%	49.3%	28.6%	111

Student ID

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08DMP22F10002

08DMP22F10003

08DMP22F10004

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08DMP22F10006

08DMP22F10007

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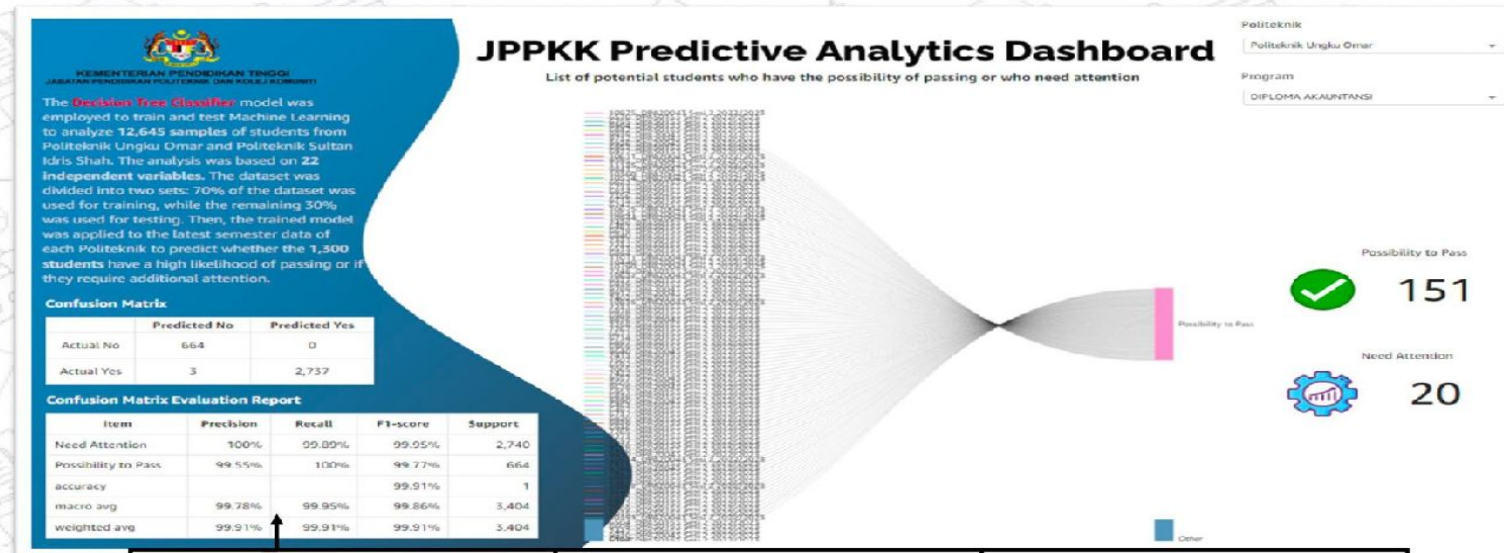
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INISIATIF CLOUD COMPUTING- MACHINE LEARNING RESULT PREDICTION



ACCURACY

Accuracy is the share of correctly classified objects to the total number of objects. In other words, it shows often the model is right overall.

$$(TP+TN)/(TP+TN+FN+FP)$$

PRECISION

Precision is the share of true positive predictions in all positive predictions. In other words, it shows how often the model is right when it predicts the target class.

$$TP/(TP+FP)$$

RECALL

Recall shows the share of true positive predictions made by the model out of all positive samples in the dataset. In other words, recall shows how many instances of the target class the model can find.

$$TP/(TP+FN)$$

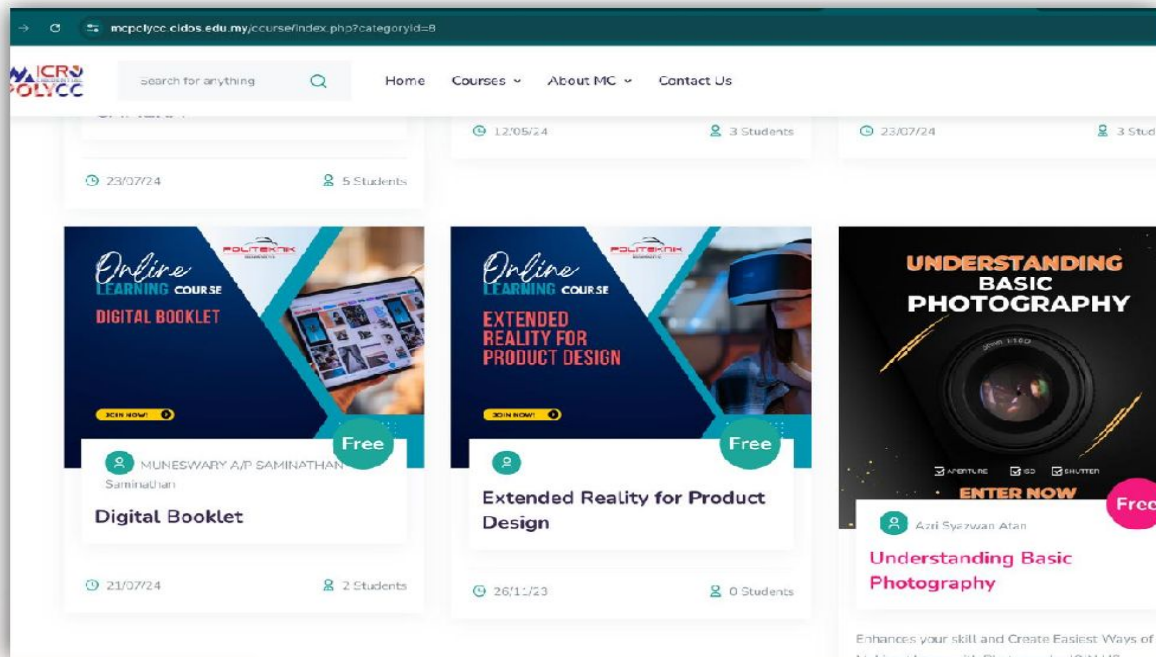
F1-SCORE

The F1 score is a measure of a test's accuracy, it is the harmonic mean of precision and recall. Overall, it measures of the precision and robustness of the model.

$$TP / (TP + \frac{1}{2}(FP+FN))$$

INISIATIF CLOUD COMPUTING- Micro Credential/ AWS training partner MC

MICROCREDENTIAL (MC)



350 kursus percuma kepada pelajar POLYCC

AWS TRAINING PARTNER



**Micro-credential
AWS TRAINING PROVIDER (ATP)
JPPKK agensi pertama di Malaysia**

20 kursus percuma Fokus AI dan Cloud
Computing kepada pelajar POLYCC
Bersama AWS

INISIATIF CLOUD COMPUTING- Micro Credential/ AWS training partner MC

BAHAGIAN INSTRUKSIONAL DAN PEMBELAJARAN DIGITAL

STATUS SEMASA PELAKSANAAN MC DIGITAL BIPD 2026

Inisiatif Pembudayaan, Pembangunan dan Peluasan Akses MC Digital

1 Pembudayaan

A BENGKEL PENINGKATAN KEMAHIRAN EMERGING TECHNOLOGY - MICROCREDENTIAL
22 - 24 Jun 2026
Hotel Raia, Kuala Terengganu
Urusetia: Politeknik Sultan Mizan Zainal Abidin
Objektif: Perkongsian bagi gamifikasi MC Digital

B BENGKEL PEMBANGUNAN BAHAN DIGITAL KURSUS MPU MC
28 - 30 Julai 2026
Hotel Tamu Kuala Lumpur
Urusetia: BIPD
Objektif: Membantu SME Kolej Komuniti membangunkan bahan digital di platform MC Digital bagi kursus MPU

2 Pembangunan Digital Badges Credential

Pembangunan menggunakan teknologi *blockchain* bagi membolehkan digital badges turut diakses oleh public atau bakal majikan sekaligus memberikan *added value* kepada pelajar.

Blockchain-enabled Digital Badges

3 Peluasan Akses MC Digital - ATP AWS

aws **33,000**
pelajar telah menerima AI Digital Badges yang diiktiraf oleh AWS melalui platform MC Digital.

TVET GLOBAL -
Peluasan akses kepada pelajar University College of Applied Science (UCAS-GAZA)

4 Peningkatan Kursus MC Digital

300
kursus MC

50
kursus percuma untuk orang awam

Merangkumi 300 kursus MC dan 50 kursus yang boleh diakses secara percuma oleh orang awam.

Engineering & Technology

Digital Literacy & ICT

Professional Development

Applied Science

Communication & Wellness

INISIATIF CLOUD COMPUTING- BLOCKCHAIN SISTEM

BLOCKCHAIN DIGITAL BADGES

The screenshot displays the 'My Badges' section of the Satria system. On the left, a navigation menu includes 'Dashboard', 'My Profile', and 'My Badges' (which is highlighted). The main content area is titled 'My Badges' with the subtitle 'View and manage your earned digital badges'. Below this, there are tabs for 'JPPKK Badges' and 'External Badges'. Under 'JPPKK Badges', two identical badge cards are shown. Each card features a 'POLYCC' logo at the top, followed by the text 'WIN YOUR ENGLISH: JOURNEY AT WORKPL...'. Below the text, it indicates the badge is 'Active' and 'Verified'. The badge is titled 'COMPLETION BADGE' and is issued by 'JPPKK Malaysia'. It was issued on '25 Aug 2026' and has '37 views'. At the bottom of each card are 'View' and 'Share' buttons.

The infographic provides a detailed overview of the Satria system. At the top, it features the logos of the Ministry of Education (KEMENTERIAN PENGAJIAN TINGGI), POLYCC, and AWS. The title 'SATRIA' is prominently displayed, followed by the subtitle 'SISTEM AUTENTIKASI TEKNOLOGI RANTAIAN-BLOCK INTEGRITI AKADEMIK' and the tagline 'POWERED BY BLOCKCHAIN'. The infographic is divided into several sections:
1. **AKRONIM SATRIA**: A vertical list of the acronym's components:
- **SISTEM**: Platform bersepadu bagi pengurusan dan pengesahan kelayakan akademik secara digital.
- **AUTENTIKASI**: Memastikan setiap rekod dan kelayakan adalah sah, tulen dan boleh dipercayai.
- **TEKNOLOGI**: Menggunakan teknologi terkini bagi memastikan kecekapan, keselamatan dan kebolehpercayaan sistem.
- **RANTAIAN-BLOCK**: Memanfaatkan teknologi blockchain untuk rekod teragih yang selamat, telus dan tidak boleh diubah.
- **INTEGRITI**: Menjamin integriti data dan mencegah pemalsuan atau perubahan rekod.
- **AKADEMIK**: Menfokuskan kepada pengurusan kelayakan akademik yang digital dan dipercayai.
2. **APA ITU SATRIA?**: A section explaining that the system uses blockchain technology to enable digital badges that can be accessed by the public or used as 'added value' for students. It includes a diagram of a blockchain-enabled digital badge.
3. **AKSES MELALUI**: A section showing the URL 'https://satria.cidos.edu.my' with a search icon.
4. **DIRANGKUNKAN UNTUK MELENGKAPI**: A section showing logos for 'MC POLYCC DIGITAL' and 'aws academy ATP'.
5. **Footer**: A row of icons and text: 'SELAMAT & TERPELIHARA' (Data is backed up and secure), 'TULEN & BOLEH DISAHKAN' (Records are reliable and verifiable), 'DIUKUI SECARA GLOBAL' (Supported globally), and 'MENAMBAH NILAI' (Adding value).

INISIATIF CLOUD COMPUTING- AGENTIC AI

PENILAIAN SECARA AUTOMATIK .

CTH PENILAIAN VIDEO DAN PDF FILES. ADMIN BOLEH MELETAKKAN BEBERAPA SYARAT ASAS UNTUK DINILAI AI DAN PEMARKAHAN DI BUAT AI . SEBELUM DI NILAI MANUSIA ATAU LECTURER . PENJIMATAN MASA PENSYARAH

PENILAIAN SECARA AGENTIC MENGGUNAKAN AI

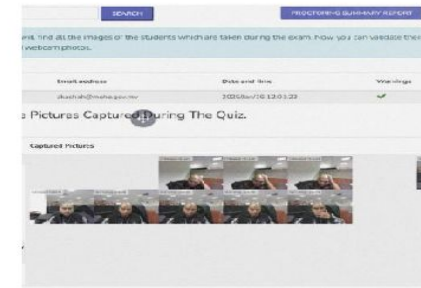
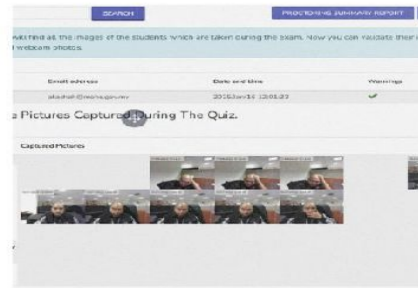
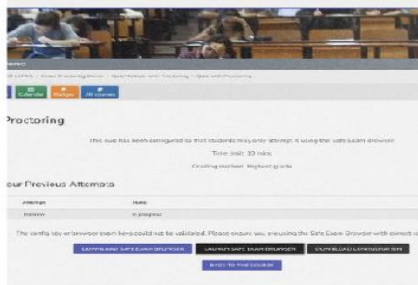


INISIATIF CLOUD COMPUTING- PROCTORING SISTEM

PROCTORING @ POLYCC

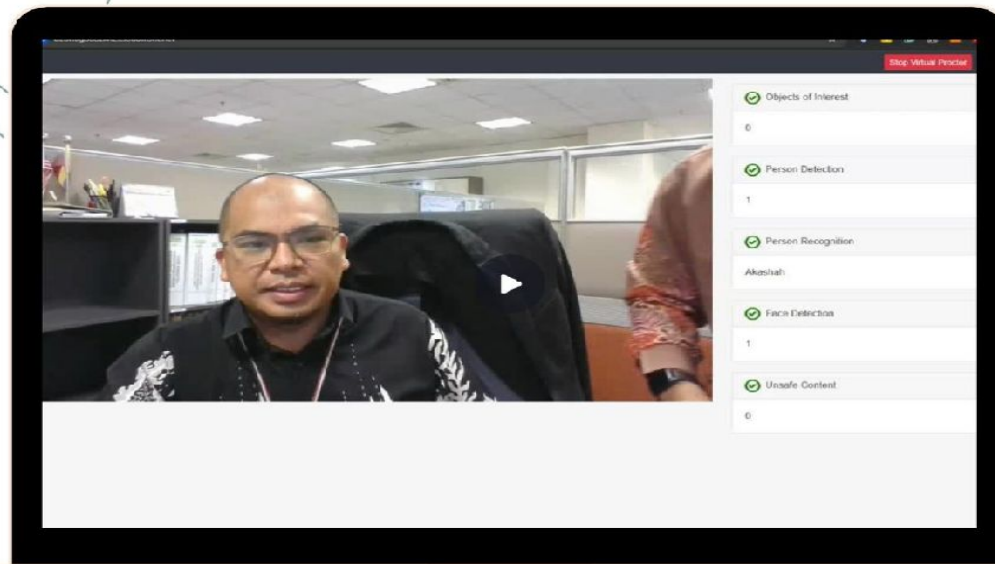
Terdapat tiga (3) opsyen proctoring digunakan menjalankan penilaian secara online:-

- Safe Exam Browser
- Webcam Proctoring
- AI Video Proctoring (*Video Recognition*)



INISIATIF CLOUD COMPUTING- PROCTORING SISTEM

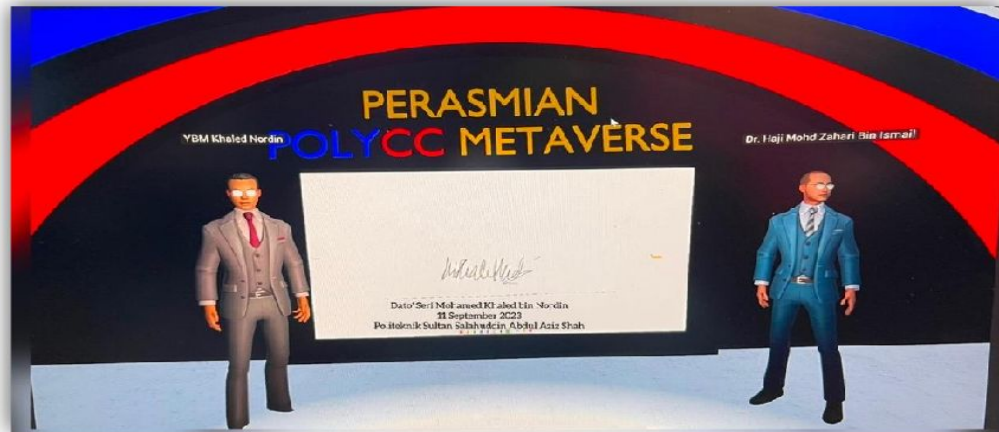
AI VIDEO PROCTORING



1. Digunakan di Politeknik METrO dalam skala yang kecil
2. AI Webcam proctoring diproses secara real time- AI DETECTION.

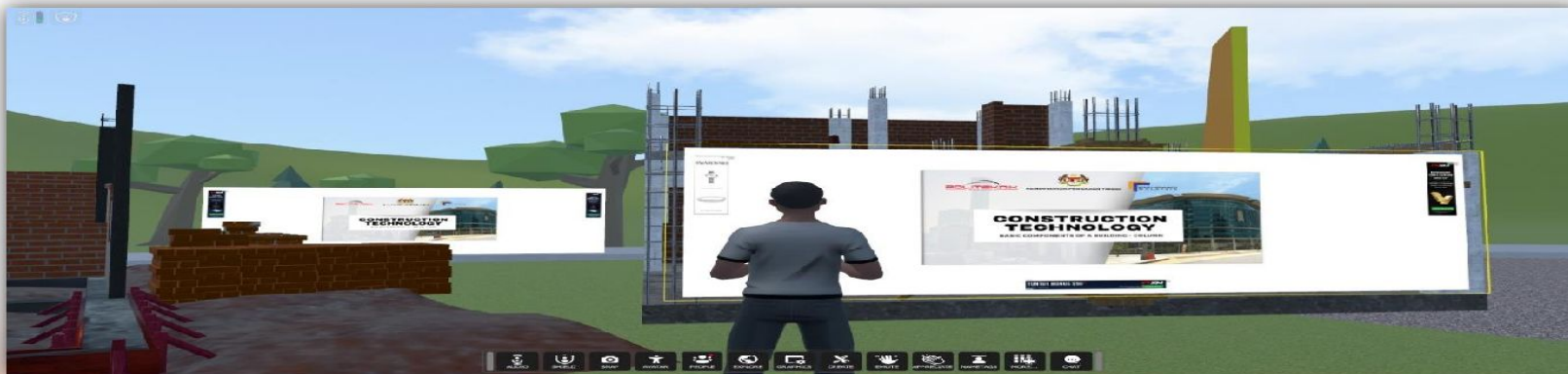


INISIATIF CLOUD COMPUTING- Platform Metaverse



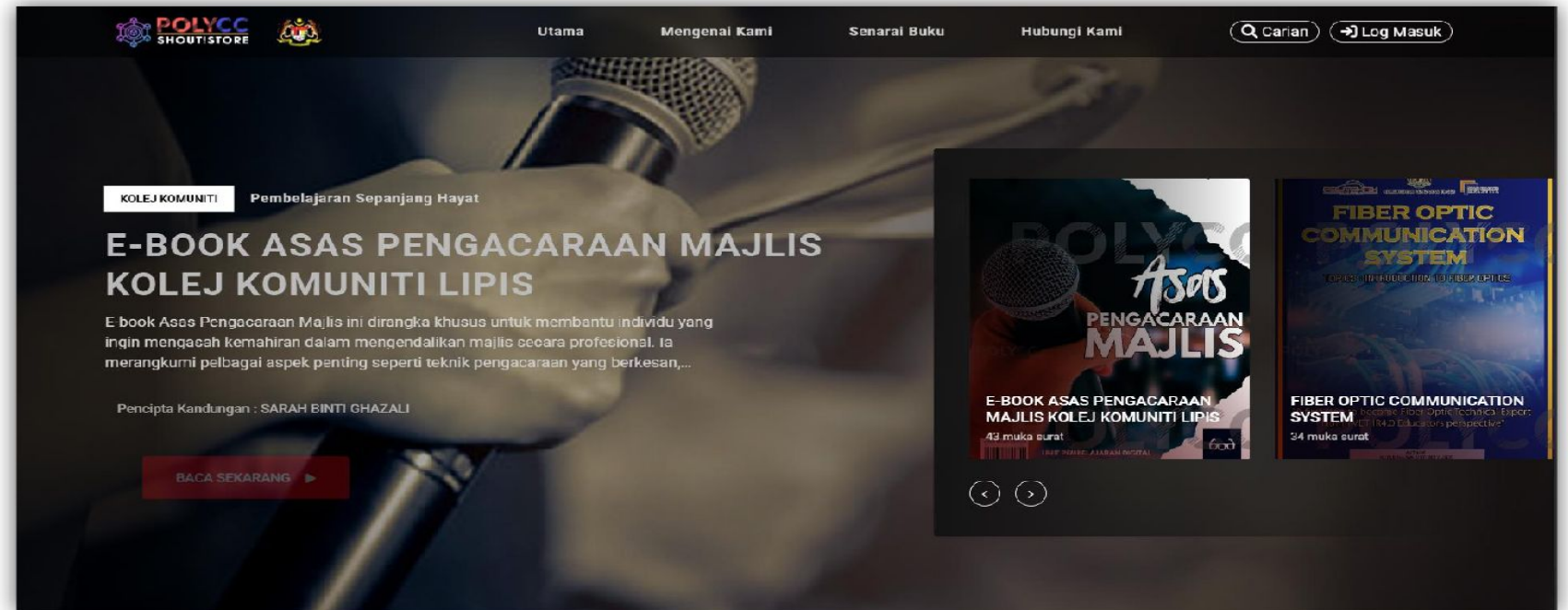
METaverse

Platform metaverse telah dibangun dalam cloud computing untuk digunakan dalam pembangunan content metaverse-cth : Pembelajaran susunan batu bata antara pensyarah dan beberapa pelajar

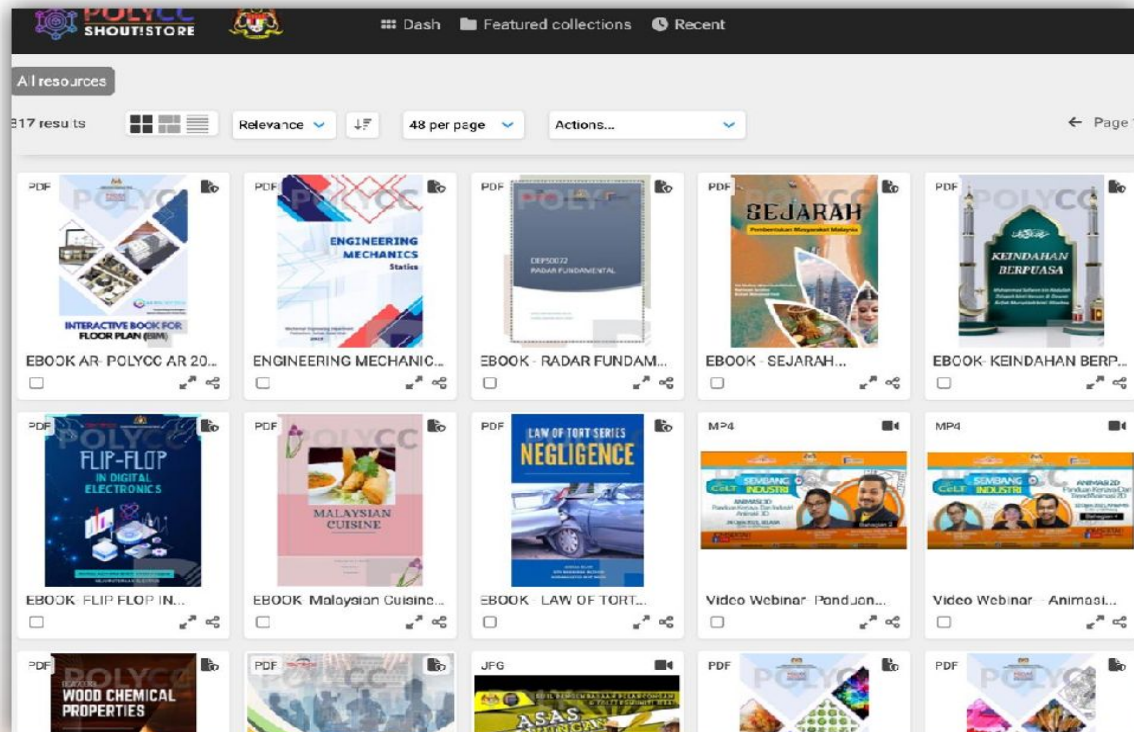


INISIATIF CLOUD COMPUTING- OER PLATFORM

- Kini terdapat hampir **4000**
- bahan **PEMBELAJARAN digital** yang telah dibangunkan **SEPERTI AR, VR, VIDEO PDP, E- BUKU DAN DOKUMEN PEMBELAJARAN**



INISIATIF CLOUD COMPUTING- OER PLATFORM



Repositori bahan pembelajaran yang memudahkan pencarian

INISIATIF CLOUD COMPUTING- POLYCC DEEP RACER WITH AWS



POLYCC AWS DeepRacer ialah program pembelajaran dan pertandingan **AI & Machine Learning** menggunakan teknologi AWS. Pelajar membangunkan dan melatih model **Reinforcement Learning** di AWS Cloud untuk mengawal kereta autonomi di trek perlumbaan.

Ringkasnya:

Learn AI → Train Model → Autonomous Racing Ia memberi pengalaman **hands-on AI, Machine Learning, Cloud Computing** dan **Autonomous Technology** kepada pelajar POLYCC.

INISIATIF CLOUD COMPUTING- AGENTIC AI LEAGUE



MINISTRY OF HIGHER EDUCATION
DEPARTMENT OF POLYTECHNIC AND COMMUNITY COLLEGE EDUCATION

MALAYSIA BOOK OF RECORDS
LARGEST PARTICIPATION IN AN AGENTIC AI COMPETITION



INNOVATION
TALENT
COLLABORATION
REAL IMPACT



POLYCC Agentic AI League

POLYCC Agentic AI League ialah pertandingan inovasi AI yang mencabar pelajar POLYCC untuk **membangunkan AI Agent yang mampu melaksanakan tugas secara autonomi** bagi menyelesaikan masalah dunia sebenar.

Ringkasnya:

Build AI Agent → **Solve Real Problems** →
Compete & Innovate



INNOVATE



EMPOWER
STUDENTS



SOLVE
REAL PROBLEMS



COMPETE
& INNOVATE

ACCULTURATION/AWERENESS/STUDENT ACTIVITY

Pertandingan Akhir POLYCC LLM League 2025

Tarikh : 17 Ogos 2025 (Ahad)
Masa : 2:00 ptg - 5:00 ptg
Lokasi : SACC Shah Alam

Jam tonton **LIVE STREAM**
f politeknik.kolejkomuniti
▶ edutv@polycc

SCAN ME

Jom scan kod QR untuk undi pasukan institusi anda di Telegram

LARGE LANGUAGE MODELS LEAGUE POLYCC

Pertandingan POLYCC LEAGUE OF LARGE LANGUAGE MODEL (LOL) 2024

Saksikan Taklimat Pertandingan POLYCC LOL 2024
EduTV@POLYCC 10:00 pagi 22 Julai 2024

MALAYSIA BOOK OF RECORDS
LARGEST PARTICIPATION IN AN AGENTIC AI COMPETITION

POLYCC AGENTIC AI LEAGUE 2026

Pendaftaran POLYCC AGENTIC AI LEAGUE 2026

Nak belajar nak main game ala 'Pac-Man' tanpa joystick?
Peserta akan belajar bagaimana nak kawal Pac-Man menggunakan agen-agen AI yang disetting dan di vibe coding.

TAK TAHU CODING? JANGAN RISAU!
Setiap team akan dibekalkan dengan:
• AWS Kiro (vibe coding assistant)
• AWS SageMaker Studio AI
• AWS Bedrock AgentCore
Semua boleh melalui Web Browser (PERCUMA)

Pertandingan
• Saringan Online
• Final bersemuka di Shah Alam

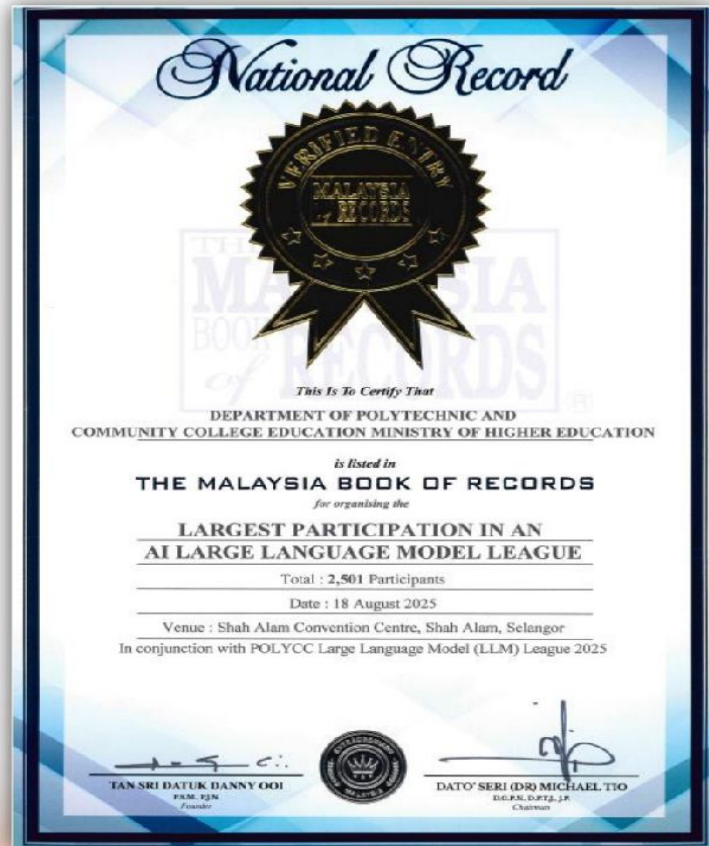
GANJARAN
• Hadiah lumayan
• Sijil Pelajar & Penyarah

PASUKAN
1 Penyarah + 2 Pelajar
Terbuka kepada semua POLYCC
Setiap institusi wajib daftar 1 team
(Bijuk surat habahan)

DAFTAR SEKARANG
<https://agentic.cidos.edu.my>

Pendaftaran 22 JUN - 10 JULAI 2026

ACCULTURATION/AWERENESS/STUDENT ACTIVITY



• PENYERTAAN ANTARABANGSA



KESIMPULAN

01



Perancangan jangka masa pendek dan panjang dan keseragaman menjadi **polisi utama** di JPPKK.

02



Hal ini memudahkan proses **membida bajet** di kementerian ekonomi dan **kementerian digital**.

03



KPI telah dijadikan asas bagi menjalankan sesuatu **agenda baharu**.

04



Kolaborasi strategik sangat penting bersama **industri** bagi membolehkan **tools baharu** digunakan sebelum diaplikasi dalam pembelajaran digital.

05



Latihan pendigitalan berterusan amat penting bagi menyediakan **modal insan kompeten** dalam proses pdp.

06



Penghargaan diberi kepada mereka yang memberi komitmen yang tinggi melalui **anugerah dan kenaikan pangkat**.

Terima Kasih



**JABATAN PENDIDIKAN POLITEKNIK DAN KOLEJ KOMUNITI
KEMENTERIAN PENDIDIKAN TINGGI**

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62100 Putrajaya, Malaysia

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POLYCCOfficial

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POLYCC
TVET For All