



**UM – MDEC  
COLLABORATION:  
PREMIER DIGITAL TECH  
INSTITUTIONS 2021**

**May 2021**

**MDEC**<sup>®</sup>

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## OUR VISION

For Malaysia to be a vibrant and inclusive digital economy

## OUR MISSION

Build a sustainable digital ecosystem to drive Malaysia's digital economy forward

# STRATEGIC PILLARS

# 1

## Digitally-Skilled Malaysians



Upskilling all Malaysians to be digitally skilled and contribute to the growth of the leading digital economy in ASEAN

# 2

## Digitally-Powered Businesses



Clear end-to-end support for business; Digitalising SMEs; Growing Start-ups, Globalising Scale Ups

# 3

## Digital Investments



Recognised globally for;

- Animation, game development, and esports;
- Data Centres;
- Global test bed for ICT and digital for nearly 25 years

# DIGITAL SKILLS AND JOBS INITIATIVES



**2.19 Mil** / school students impacted nationwide (2016-2020)

**90,000**  
teachers trained

**500**  
School counselors

**515**  
Digital Ninjas



**109,000**  
enrolled in myDM Hero

**121**  
Digital Maker Hub (DMH)

**>230,000** / tertiary students impacted nationwide (2015-2020)

**>1,900**  
lecturers trained

**>60**  
IHLs

**>500**  
TVET centres



**PDTI Achievements (2017-2020):**

- 95% graduate employability rate
- 33,000 students enrolled
- 60% increase in enrolment in 2020 compared to 2017

**>15,000** / current workforce trained (2015-2020)

**Focus Areas include:**

- Cyber Security
- Data Science & AI
- Digital Creative Content
- Software Development

**>47,000**  
job applicants via #mydigitalworkforce initiatives

**180**  
courses endorsed via Digital Skills Training Directory



**>567,000** / latent talent trained nationwide (2015-2020)

**>RM 2.153 Bil**  
income generated via eUsahawan, eRezeki & GLOW Programs

**22,749**  
Coursera online courses completed by 4,870 applicants via Let's Learn Digital campaign 2020





# PREMIER DIGITAL TECH INSTITUTIONS (PDTI)

Recognised by MDEC and industry as preferred institutions for digital technology entry-level talent

## OBJECTIVES

- Recognize selected tertiary institutions with proven track record in delivering quality digital tech education
- Identify and scale tertiary education models that successfully produce quality talents for digital tech careers
- Raise quality of digital tech graduates to become industry-ready

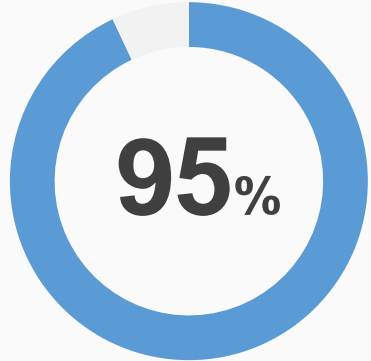
Since 2017	Since 2019
 <ul style="list-style-type: none"> <li>1. Politeknik Ungku Omar</li> <li>2. Politeknik Balik Pulau</li> <li>3. Politeknik Sultan Idris Shah</li> <li>4. Politeknik Mersing</li> <li>5. Politeknik Sultan Mizan Zainal Abidin</li> </ul>	



# PDTI HAS IMPACTED 30,000 GRADUATES SINCE MDEC® ITS INCEPTION IN 2017

### MDEC Interventions

- Drive student intake
- Strengthen lecturers' digital tech expertise
- Facilitate industry-oriented curriculum
- Facilitate graduate employment



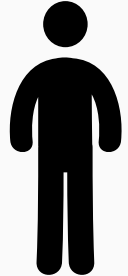
(2017 – 2019)



(2020)

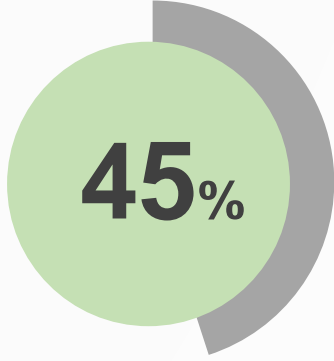
Average Graduate Employability

\* GE within 12 months of graduation: 94%

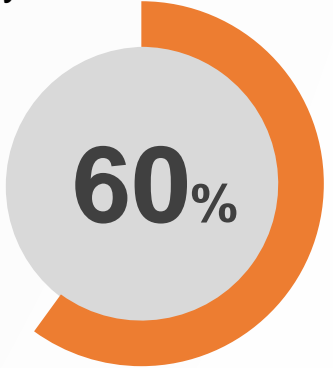


593

lecturers trained in in-demand tracks



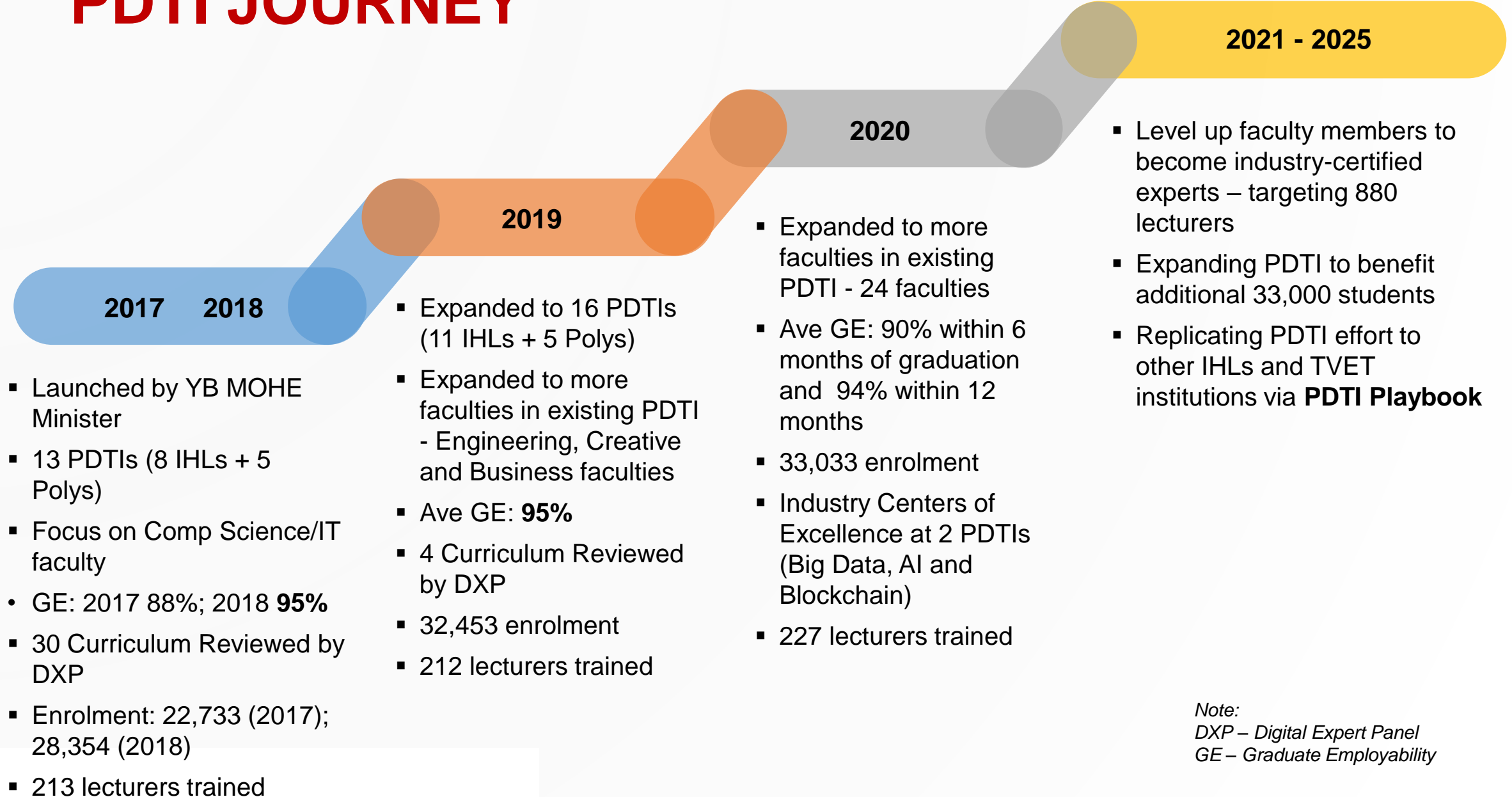
increase in CS/IT courses intake



increase in total students enrolled

\*GE within 6 months of graduation (usual GE KPI timeline) dropped due to economic slowdown owing to COVID-19, but picked up later in the year. GE within 12 months of graduation stood at 94%.

# PDTI JOURNEY



*Note:*  
 DXP – Digital Expert Panel  
 GE – Graduate Employability

# FACULTIES AWARDED WITH PDTI STATUS



- Faculty of Computer Science & Information Technology (2017)



- School of Computing (2017)
- School of Electrical Engineering (2020)



- Faculty of Computer & Mathematical Sciences (2017)
- Faculty of Electrical Engineering (2020)



- Kulliyah of Information and Communication Technology (2019)



- Faculty of Computing, Engineering and Technology (2017)



- Faculty of Computing & Informatics (2017)
- Faculty of Information Science & Technology (2019)
- Faculty of Creative Multimedia (2019)



- Faculty of Computing & Information Technology (2017)
- Faculty of Engineering and Technology (2019)
- Faculty of Communication and Creative Industries (2019)



- School of Computer Science and Engineering (2017)



- School of Science & Technology (2017)



- Faculty of Computing and Digital Technology (2019)
- Faculty of Business, Economics and Accounting (2019)



- Faculty of Information and Communication Technology (2019)
- Lee Kong Chian Faculty of Engineering and Science (2019)



Jabatan Teknologi Maklumat & Komunikasi (2017) at following Poly:

- Politeknik Ungku Omar
- Politeknik Balik Pulau
- Politeknik Sultan Idris Shah
- Politeknik Mersing
- Politeknik Sultan Mizan Zainal Abidin

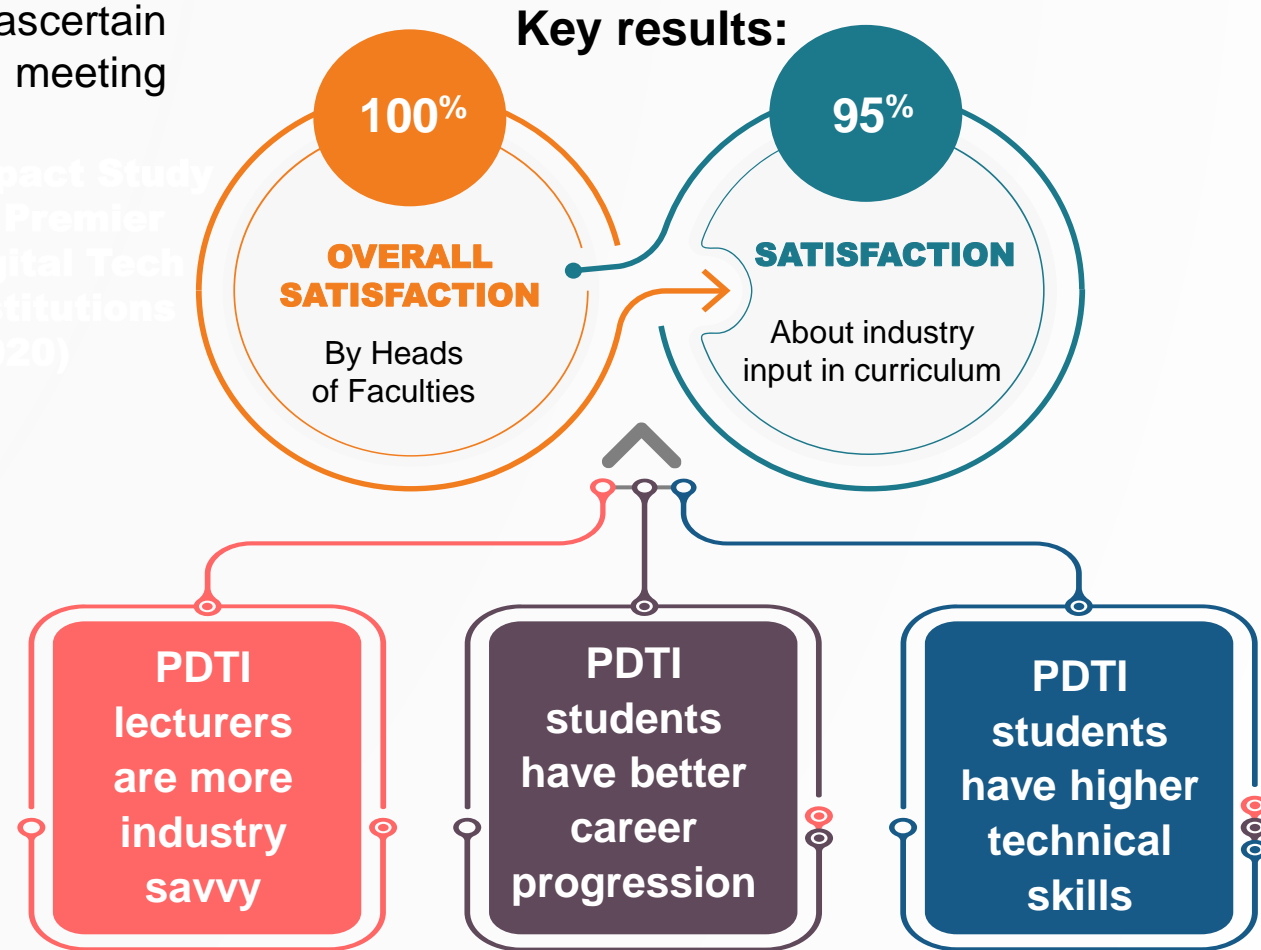


# INDEPENDENT IMPACT STUDY FOUND PDTI INITIATIVE HAS MET ITS RMK11 OBJECTIVES

MDEC commissioned an independent study to ascertain the impact and effectiveness of PDTI initiative in meeting industry demand for quality digital tech talent.



Impact Study on Premier Digital Tech Institutions (2020)



Source: Ipsos Sdn Bhd

**Based on the PDTI results to-date, MDEC will be expanding the PDTI initiative to more faculties and universities in 2021-2025 & is keen to explore synergies with MOSTI & MBOT.**

# PREMIER DIGITAL TECH INSTITUTIONS STATUS

## RENEWAL / EXPANSION OF PDTI

### **CURRENT PDTI:**

Faculty of Computer Science and Information Technology

### **FUTURE EXPANSION**

Faculty of Economics and Administration

Faculty of Science

\*MDEC will send an official request to UM for nomination of faculty expansion.

## Rallying action to re-skill the Malaysian workforce for the digital economy



<p><b>WORK &amp; LEARN</b></p> <p>Remain relevant and competitive in the workforce through upskilling in digital tech part-time or short courses</p> <p><a href="#">Learn More</a></p>	<p><b>CAREER UPGRADE</b></p> <p>Desiring a career change? Exploring possibilities of a career in digital tech? Here is where it begins with career upgrade courses</p> <p><a href="#">Learn More</a></p>	<p><b>LEARNING ON DEMAND</b></p> <p>Learn Anywhere Anytime with these Massive Open Online Courses (MOOC) Platform Providers</p> <p>COMING SOON</p>
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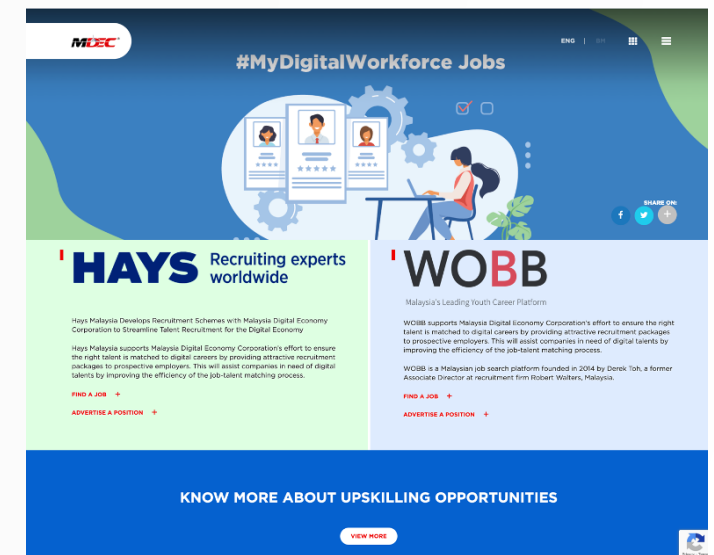
### Digital Skills Training Directory

To help Malaysians select training programmes that best suit their interests and industry demands



### MyDigitalWorkforce Work in Tech (MYWiT)

To incentivize employers to hire unemployed Malaysians via digital re-skilling or up-skilling



### Jobs Platform

- Digital job aggregator
- Partnership with WOBB & HAYS

# DIGITAL TECH INDUSTRY SKILLS FRAMEWORKS

## ~ PROVIDE GUIDANCE ON DIGITAL CAREER PATHWAYS

- 6 tech focus areas and growing...
- 56 career pathways
- 363 core skills
- 508 competencies
- 415 Emerging skills
- 343 In-demand certification



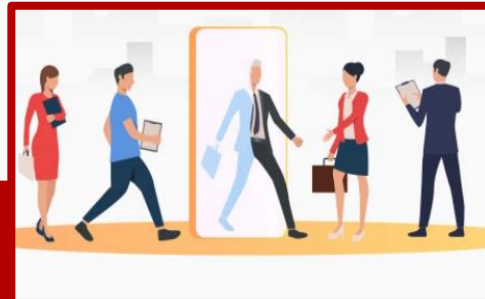
**Download at:**

<https://mdec.my/digital-economy-initiatives/for-the-people/upskilling-opportunities/>

A catalogue of courses and online training providers that have been reviewed and endorsed by a panel of digital industry experts to guide Malaysians in selecting courses that meet their career needs for digital economy jobs



## Work and Learn



## Career Upgrade



## Learning On Demand

Component

- Training < 90 days
- Training > 90 days + **job placement**
- Massive Open Online Courses (MOOC)

Focus Area

- **Data Science**
- **Cybersecurity**
- **Software Development**
- **Animation**
- **Game Development**
- **Digital Global Business Services**
- **Data Science**
- **Cybersecurity**
- **Software Development**



# Courses

- 180 courses
- 12 courses



## Digital Business Services (DBS)

**MYWiT**  
MyDigitalWorkforce  
Work in Tech

**Incentive for Digital Business Services (DBS) Programme**

**40%**  
of monthly salary subsidised for **6 months**

Up to **RM5,000**  
training subsidy per new employee when they undergo in-house training or short courses



**MDEC**

## Digital Tech Apprenticeship (DTA)

**MYWiT**  
MyDigitalWorkforce  
Work in Tech

**Incentive for Digital Tech Apprenticeship (DTA) Programme**

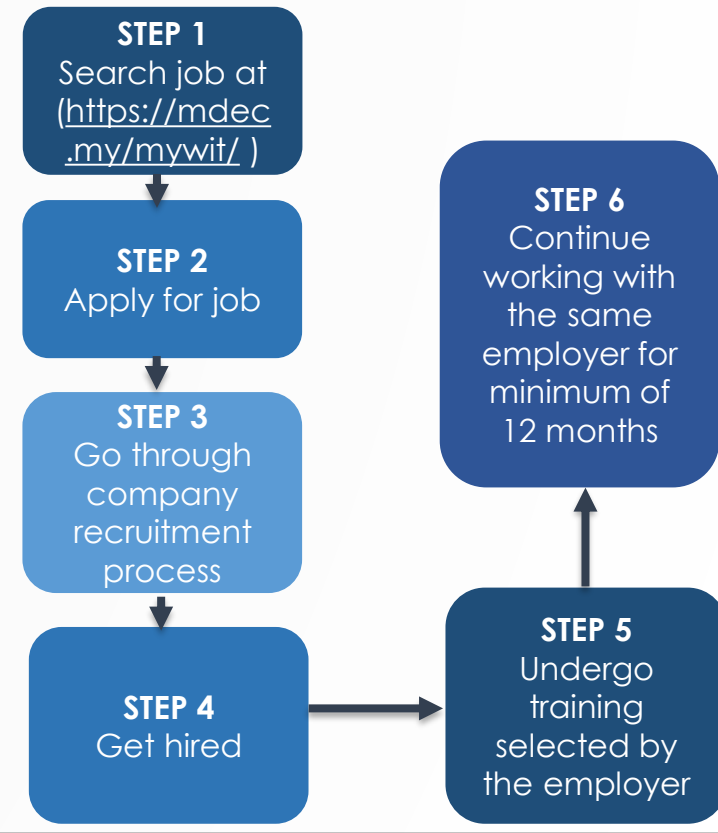
**RM1,200**  
monthly salary subsidised for **6 months**

**RM8,000**  
training subsidy per new employee



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## How to Apply?



Companies who are hiring fresh graduates/ unemployed Malaysians for Digital Business Services\* job roles

Companies who are hiring unemployed Malaysians for high demand tech jobs in Data Science, Software Development and Cybersecurity

For Jobseeker (fresh graduate, unemployed\*\*, retrenched workers) to Apply

\*Digital Business Services Job - A service that is delivered to business customers by business units using digital tools and platforms (e.g: finance & accounting, HR, marketing, content moderation, customer experience, etc) – reference to Digital GBS Industry Skills Framework. \*\* unemployed for a min duration of 2 months

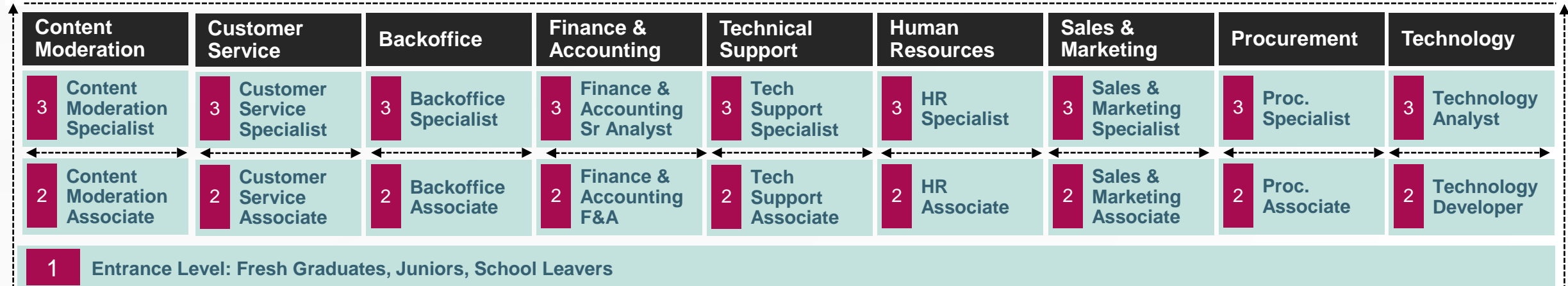
# DIGITAL GLOBAL BUSINESS SERVICES

- Digital Global Business Services (GBS) is the evolution of Shared Services and Business Process Outsourcing (BPO).
- It provides services beyond transactional functions and has a wider remit and expertise to deliver higher value functions, such as consulting and business analytics.
- Deploys advanced digital tools and technologies to deliver scalability to the business and leverages business service delivery across international operations.

## EXAMPLE OF GBS COMPANIES



## DIGITAL GBS TYPES OF JOBS & CAREER PATHWAYS



- Web content Review
- Social Content review
- Audio & Video Content Service
- Customer Interaction

- Customer Service
- Customer Care
- Customer Interaction

- Admin
- Backoffice

- Transactional Finance Processes
- Financial Planning & Analysis (FP&A)
- Statutory Accounting
- Tax
- Treasury
- Business Partnering

- Tech Support
- Developer
- Tech Assistant
- Tech Admin

- Human Resources

- Sales & Marketing

- Procurement

- Technology:
- Robotic Process Automation (RPA)
- AI
- Blockchain
- Automation
- Data Science
- Other emerging tech for GBS/BPO



A digital jobs aggregator platform in partnership with **WOBB** and **HAYS**

## OBJECTIVE

To provide a platform which aggregates digital jobs ranging from entry level positions to experienced hires.

## BENEFITS

### Job seekers

- Access to digital job postings
- Simplify digital job process
- Access to MDEC partners with large digital roles

### Companies

- Access to large database of digital talents
- Attractive recruitment package for companies to support digital transformation

## OUTCOME\*

- More than 2,000 digital jobs advertised on the platform
- 22,900 jobs applications
- 674 shortlisted for interview

\*As of Dec 2020



THANK YOU.

For more information, pls  
contact [nik@mdec.com.my](mailto:nik@mdec.com.my)