初中人工智能課程單元 規劃及教學分享 網上研討會



黄健威老師

資訊科技教育領袖協會(AiTLE)主席 英華書院資訊科技統籌暨電腦科科主任

如何在初中規劃人工智能課程



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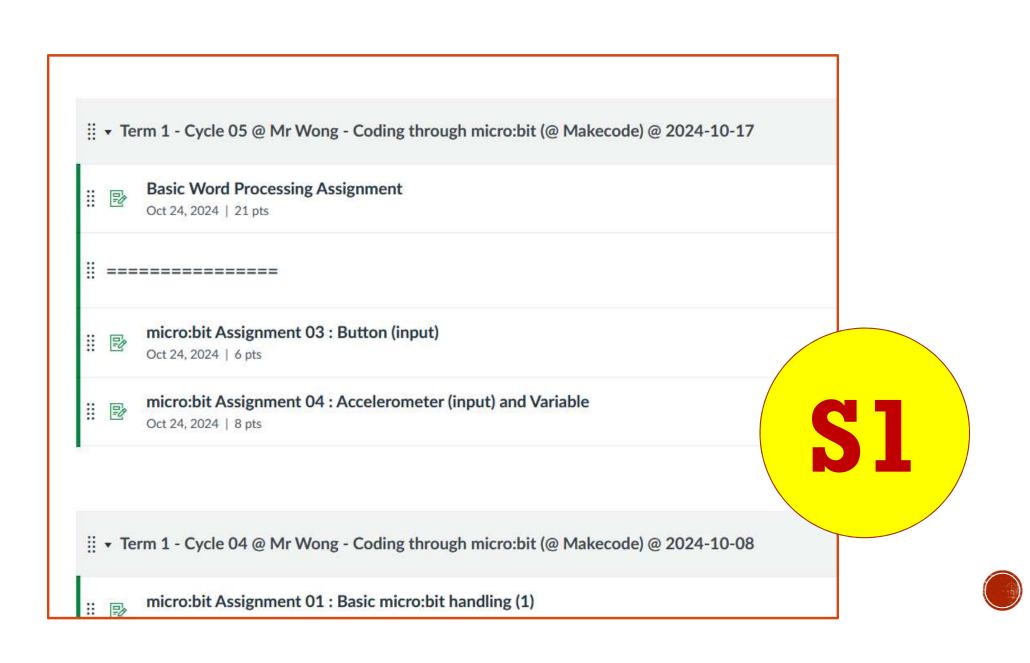
- Subject teachers = 4
 - 3 of them → all lessons are computer (CL / ICT)
 - 1 of them \rightarrow IS + Chem + CL

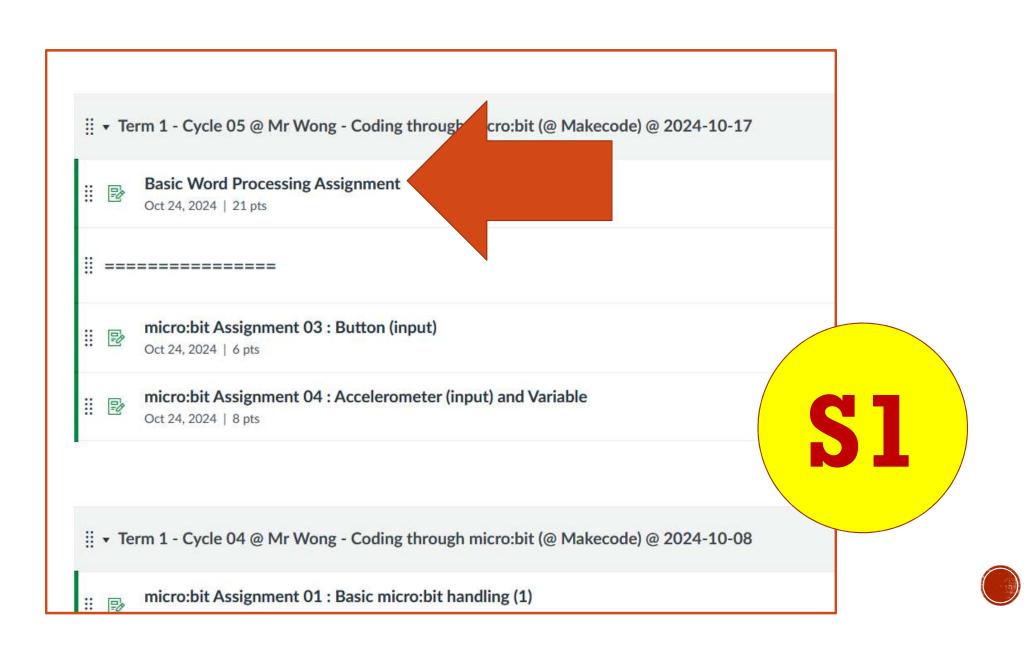
	2024-2025									
	Ter	m 1	Term 2							
	Albert	Matthew	Albert	Matthew						
	C604	C602	C604	C602						
S1	microbit	Al	Media Lit Excel	Al						

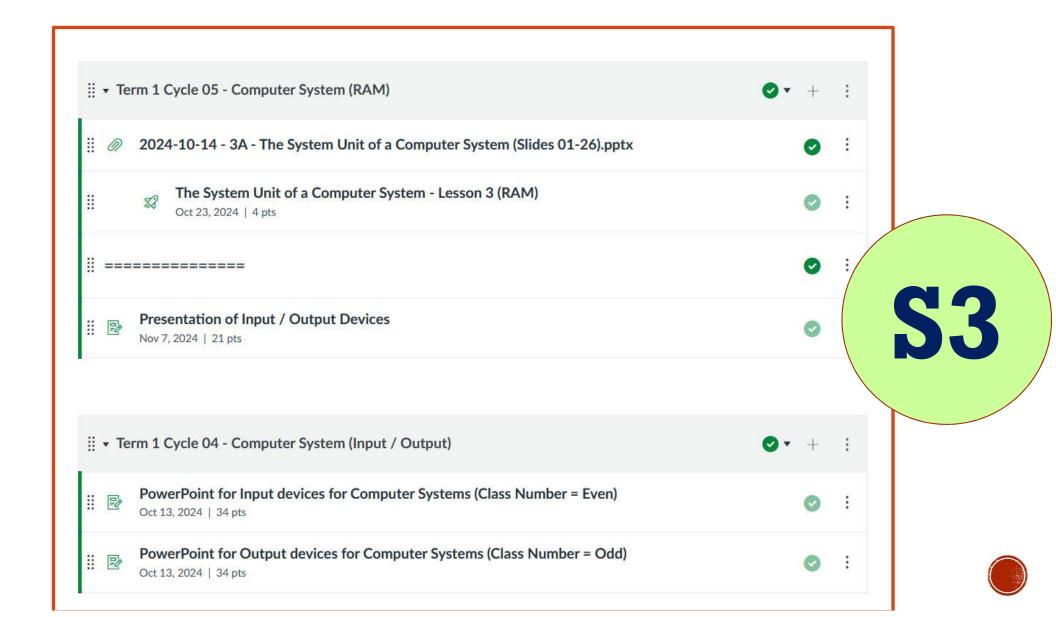
2024-2025								
	Tei	rm 1	Term 2					
	Vicky	Matthew	Vicky	Matthew				
S2	Al	Excel	AlphAl	CT / App Inventor 2				

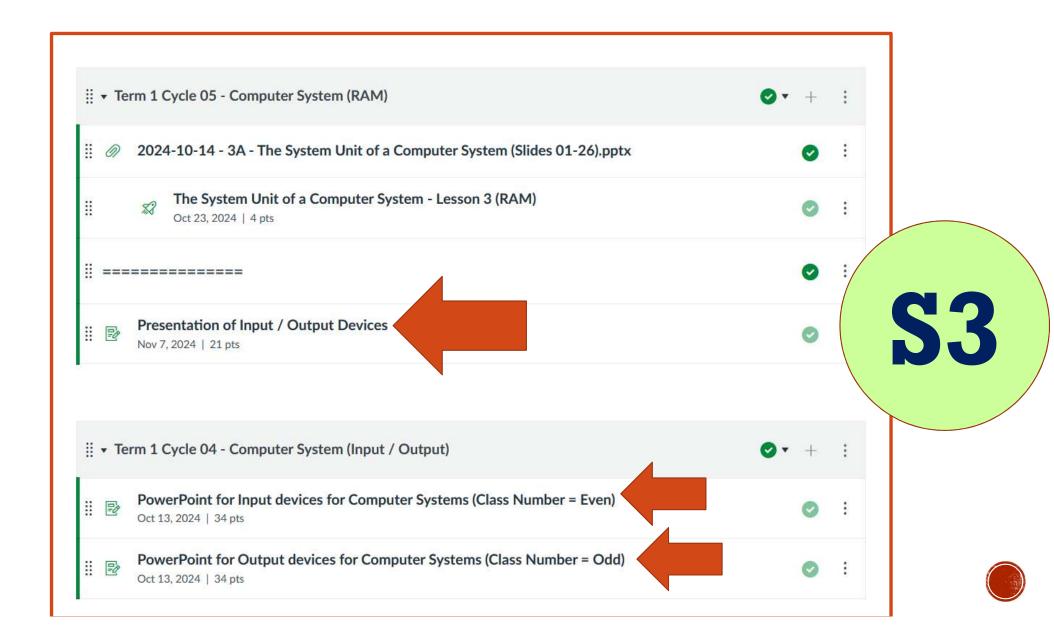
2024-2025								
	Albert	Vicky	Albert	Vicky				
S3 (Split) 1	Computer System	Databases	Networking + CyberSecurity (Social Implication)	Python				

2024-2025								
	Albert	Vicky	Albert	Vicky				
S3 (Split) 1	Computer System	Databases	Networking + CyberSecurity (Social Implication)	Python				

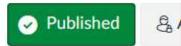








Presentation of Input / Output Devices



Create a video, with at least 5 min long, presentation Input / Output devices according to your class number.

Below are some requirement for the video:

- The presentation must be in English (non-English part will be neglected and no mark will be given to the
- · Length of video: at least 5 min long
- First 5-10 seconds
 - Whole screen showing
 - Topic (Input / Output Device)
 - Class, class number, your name (Full name in English)
- Remaining time
 - Presentation of content
 - o In video, can see
 - your PPT (in presentation mode)
 - your face (in speaking mode, presenting the content of PPT)
 - Using Video editing skill, add [your Class + Class number + Full name in English] under your face (video)
- Last 10 seconds
 - 7 seconds ==> Whole Screen showing

S3



- First 5-10 seconds
 - · Whole screen showing
 - Topic (Input / Output Device)
 - Class, class number, your name (Full name in English)
- Remaining time
 - Presentation of content
 - o In video, can see
 - your PPT (in presentation mode)
 - your face (in speaking mode, presenting the content of PPT)
 - Using Video editing skill, add [your Class + Class number + Full name in English] under your
- · Last 10 seconds
 - 7 seconds ==> Whole Screen showing
 - reference URLs / Prompt of GAI used
 - Last 3 seconds ==> Whole Screen showing
 - Thank you!

For Submission:

- · Save the video in MP4 format, and
- · put into your @yingwa.edu.hk Google drive,
- · share the link to me
 - Access Setting: any one with the link



	Ying Wa College (2024-2025) - S1-3 Computer Literacy - Lesson Schedule											
Term	Cycle	Date	Weekday	School Day	Class	First Half (01 - 17)	Second Half (18 - last)					
1	1	2024-09-04	=	В	1A	Mr. Albert V	/ong (C602)					
1	2	2024-09-12	四四	В	1A	Mr. Albert V	/ong (C602)					
1	3	2024-09-26	四四	В	1A	Mr. Albert V	/ong (C602)					
1	4	2024-10-08		В	1A	Mr. Matthew Wong (C602)	Mr. Albert Wong (C604)					
1	5	2024-10-17	四四	В	1A	Mr. Matthew Wong (C602)	Mr. Albert Wong (C604)					
1	6	2024-10-25	五	В	1A	First Uniform Tests (S1-S	3) ==> Lesson Cancelled					
1	7	2024-11-05		В	1A	Mr. Matthew Wong (C602)	Mr. Albert Wong (C604)					
1	8	2024-11-13	=	В	1A	Mr. Albert Wong (C604)	Mr. Matthew Wong (C602)					
1	9	2024-11-22	五	В	1A	Mr. Albert Wong (C604)	Mr. Matthew Wong (C602)					
1	10	2024-12-02	-	В	1A	Mr. Albert Wong (C604)	Mr. Matthew Wong (C602)					
1	11	2024-12-11	Ξ	В	1A	Backup date						



	Ying Wa College (2024-2025) - S1-3 Computer Literacy - Lesson Schedule										
Term	Cycle	Date	Weekday	School Day	Class	First Half (01 - 17)	Second Half (18 - last)				
2	14	2025-01-22	三	В	1A	Lesson Swo	pped to 13/2				
2	15	2025-02-11	=	В	1A	Mr. Matthew Wong (C602)	Mr. Albert Wong (C604)				
2	44177	2025-02-13	四四	D	1A	Mr. Matthew Wong (C602)	Mr. Albert Wong (C604)				
2	16	2025-02-19	三	В	1A	Mr. Matthew Wong (C602)	Mr. Albert Wong (C604)				
2	17	2025-03-06	四	В	1A	Mr. Matthew Wong (C602)	Mr. Albert Wong (C604)				
2	18	2025-03-14	五	В	1A	Mr. Matthew Wong (C602)	Mr. Albert Wong (C604)				
2	19	2025-03-24		В	1A	Mr. Matthew Wong (C602)	Mr. Albert Wong (C604)				
2	20	2025-04-01		В	1A	Second Uniform Tests (S1-	-S3) ==> Lesson Cancelled				
2	21	2025-04-10	四	В	1A	Mr. Albert Wong (C604)	Mr. Matthew Wong (C602)				
2	22	2025-04-30	Ξ,	В	1A	Mr. Albert Wong (C604)	Mr. Matthew Wong (C602)				
2	23	2025-05-12	220	В	1A	Mr. Albert Wong (C604)	Mr. Matthew Wong (C602)				
2	24	2025-05-20		В	1A	Mr. Albert Wong (C604)	Mr. Matthew Wong (C602)				
2	25	2025-05-28	Ξ	В	1A	Mr. Albert Wong (C604)	Mr. Matthew Wong (C602)				

1.	Ying Wa College (2024-2025) - S1-3 Computer Literacy - Lesson Schedule										
Term	Cycle	Date	Weekday	School Day	Class	First Half (01 - 17)	Second Half (18 - last)				
1	1	2024-09-05	四四	С	2A	Mr. Matthew Wong (C602)	Ms. Vicky Tse (C604)				
1	2	2024-09-16		С	2A	Mr. Matthew Wong (C602)	Ms. Vicky Tse (C604)				
1	3	2024-09-30	==0	С	2A	Mr. Matthew Wong (C602)	Ms. Vicky Tse (C604)				
1	4	2024-10-09	三	С	2A	Mr. Matthew Wong (C602)	Ms. Vicky Tse (C604)				
1	5	2024-10-18	五	С	2A	Mr. Matthew Wong (C602)	Ms. Vicky Tse (C604)				
1	6	2024-10-28	- 2	С	2A	Ms. Vicky Tse (C604)	Mr. Matthew Wong (C602)				
1	7	2024-11-06	=	С	2A	Ms. Vicky Tse (C604)	Mr. Matthew Wong (C602)				
1	8	2024-11-14	四	С	2A	Class suspension due	to Typhoon Number 8				
1	9	2024-11-25	1 1 1	С	2A	Ms. Vicky Tse (C604)	Mr. Matthew Wong (C602)				
1	10	2024-12-03	_	С	2A	Ms. Vicky Tse (C604)	Mr. Matthew Wong (C602)				
1	11	2024-12-12	四四	С	2A	Ms. Vicky Tse (C604)	Mr. Matthew Wong (C602)				



	Ying Wa College (2024-2025) - S1-3 Computer Literacy - Lesson Schedule										
Term	Cycle	Date	Weekday	School Day	Class	First Half (01 - 17)	Second Half (18 - last)				
2	14	2025-01-23	四四	С	2A	Lesson Swo	pped to 10/2				
2		2025-02-10	<u>-</u> :	Α	2A	Mr. Matthew Wong (C602)	Ms. Vicky Tse (C604)				
2	15	2025-02-12	三	С	2A	Mr. Matthew Wong (C602)	Ms. Vicky Tse (C604)				
2	16	2025-02-20	四四	С	2A	Mr. Matthew Wong (C602)	Ms. Vicky Tse (C604)				
2	17	2025-03-07	五	С	2A	Mr. Matthew Wong (C602)	Ms. Vicky Tse (C604)				
2	18	2025-03-17	-	С	2A	Mr. Matthew Wong (C602)	Ms. Vicky Tse (C604)				
2	19	2025-03-25	=	С	2A	Mr. Matthew Wong (C602)	Ms. Vicky Tse (C604)				
2	20	2025-04-02	三	С	2A	Ms. Vicky Tse (C604)	Mr. Matthew Wong (C602)				
2	21	2025-04-11	五	С	2A	Ms. Vicky Tse (C604)	Mr. Matthew Wong (C602)				
2	22	2025-05-02	五	С	2A	Ms. Vicky Tse (C604)	Mr. Matthew Wong (C602)				
2	23	2025-05-13	₹.	С	2A	Ms. Vicky Tse (C604)	Mr. Matthew Wong (C602)				
2	24	2025-05-21	三。	С	2A	Ms. Vicky Tse (C604)	Mr. Matthew Wong (C602)				
2	25	2025-05-29	四	С	2A	Ms. Vicky Tse (C604)	Mr. Matthew Wong (C602)				

	Ying Wa College (2024-2025) - S1-3 Computer Literacy - Lesson Schedule										
Ter -	Cycl	Date -	Teacher -	Weo	-	Cla: -	First Ha	ulf (01 - 17)	Second Half (18 - last)		
	е		1 1	kday	Day		Day E (A&V)	Day B (M&J)	Day E (A&V)	Day B (M&J)	
1	1	2024-09-04	J&M	Ξ	В	3A		Mr. Albert V	Vong (C602)	9 .	
1	1	2024-09-09	V&A		Е	ЗА		Lesson swo	pped to 17/9		
1	2	2024-09-12	J&M	四	В	3A		Mr. Matthew Wong (C301)		Mr. Jacky Leung (C604)	
1		2024-09-17	V&A	=	С	3A	Ms. Vicky Tse (C602)		Mr. Albert Wong (C604)	4	
1	2	2024-09-19	V&A	四	Е	3A	Ms. Vicky Tse (C602)		Mr. Albert Wong (C604)		
1	3	2024-09-26	J&M	四	В	3A		Mr. Matthew Wong (C301)		Mr. Jacky Leung (C604)	
1	3	2024-10-03	V&A	四	E	3A	Ms. Vicky Tse (C602)		Mr. Albert Wong (C604)		
1	4	2024-10-08	J&M	_	В	3A		Mr. Matthew Wong (C301)	i i	Mr. Jacky Leung (C604)	
1	4	2024-10-14	V&A		E	3A	Ms. Vicky Tse (C602)		Mr. Albert Wong (C604)		
1	5	2024-10-17	J&M	四	В	3A		Mr. Matthew Wong (C301)		Mr. Jacky Leung (C604)	
1	5	2024-10-22	V&A		E	3A	Ms. Vicky Tse (C602)		Mr. Albert Wong (C604)		
1	6	2024-10-25	J&M	五	В	3A		First Uniform Tests (S1-S	63) ==> Lesson cancelled	<u>.</u>	
1	6	2024-10-30	V&A	Ξ	E	3A		高中 IC1	「科介紹		
1	1222	2024-11-01	J&M	五	Α	3A		Mr. Matthew Wong (C301)	and the state of t	Mr. Jacky Leung (C604)	
1	7	2024-11-05	J&M		В	3A		Mr. Jacky Leung (C604)		Mr. Matthew Wong (C301)	
1	7	2024-11-08	V&A	五	Е	3A		Lesson swop	ped to 18/11		
1	8	2024-11-13	J&M	Ξ	В	3A		Mr. Jacky Leung (C604)		Mr. Matthew Wong (C301)	
1		2024-11-18	V&A	-	D	3A	Mr. Albert Wong (C604)		Ms. Vicky Tse (C602)		
1	8	2024-11-19	V&A		E	3A	Mr. Albert Wong (C604)		Ms. Vicky Tse (C602)		
1	9	2024-11-22	J&M	五	В	3A		Mr. Jacky Leung (C604)		Mr. Matthew Wong (C301)	
1	9	2024-11-27	V&A	Ξ	Е	3A	Mr. Albert Wong (C604)		Ms. Vicky Tse (C602)		
1	10	2024-12-02	J&M	(В	3A		Mr. Jacky Leung (C604)		Mr. Matthew Wong (C301)	
1	10	2024-12-05	V&A	四	Е	3A	Mr. Albert Wong (C604)	1 3	Ms. Vicky Tse (C602)	1	
1	11	2024-12-11	J&M	Ξ	В	3A		Mr. Jacky Leung (C604)		Mr. Matthew Wong (C301)	
1	11	2024-12-16	V&A		E	3A	Mr. Albert Wong (C604)		Ms. Vicky Tse (C602)		



35			Ying \	Na C	ollege	(2024	-2025) - S1-3 Comp	outer Literacy - Less	on Schedule		
Ter -	Cycl	Date -	Teacher -	We-	School	Cla: -	First Ha	First Half (01 - 17)		Second Half (18 - last)	
	е			Kuay	Day		Day E (A&V)	Day B (M&J)	Day E (A&V)	Day B (M&J)	
2	14	2025-01-22	J&M	Ξ	В	3A		Mr. Matthew Wong (C602)	8.79 (0. 9)	Mr. Jacky Leung (C604)	
2	14	2025-02-06	V&A	四四	Е	ЗА	Ms. Vicky Tse (C602)	10.00	Mr. Albert Wong (C604)	1111	
2	15	2025-02-11	J&M		В	3A		Mr. Matthew Wong (C602)		Mr. Jacky Leung (C604)	
2	15	2025-02-14	V&A	五	E	3A	Ms. Vicky Tse (C602)		Mr. Albert Wong (C604)		
2	16	2025-02-19	J&M	Ξ	В	ЗА	S.	Mr. Matthew Wong (C602)		Mr. Jacky Leung (C604)	
2	16	2025-02-24	V&A	::	E	3A	Ms. Vicky Tse (C602)		Mr. Albert Wong (C604)		
2	17	2025-03-06	J&M	四	В	3A		Mr. Matthew Wong (C602)		Mr. Jacky Leung (C604)	
2	17	2025-03-11	V&A	=	Е	3A	Ms. Vicky Tse (C602)		Mr. Albert Wong (C604)		
2	18	2025-03-14	J&M	五	В	3A		Mr. Matthew Wong (C602)		Mr. Jacky Leung (C604)	
2	18	2025-03-19	V&A	Ξ	Е	3A	Ms. Vicky Tse (C602)		Mr. Albert Wong (C604)		
2	19	2025-03-24	J&M		В	3A		Mr. Matthew Wong (C602)	2000	Mr. Jacky Leung (C604)	
2	19	2025-03-27	V&A	四	Е	3A		Second Uniform Tests (S1-	S3) ==> Lesson Cancelled		
2	20	2025-04-01	J&M	_	В	ЗА		Second Uniform Tests (S1-	S3) ==> Lesson Cancelled		
2	20	2025-04-07	V&A	: :	E	3A	Mr. Albert Wong (C604)		Ms. Vicky Tse (C602)		
2	21	2025-04-10	J&M	四	В	3A	8	Mr. Jacky Leung (C604)		Mr. Matthew Wong (C602)	
2		2025-04-11	V&A	Ξ	С	3A	Mr. Albert Wong (C604)		Ms. Vicky Tse (C602)		
2	21	2025-04-15	V&A		Е	ЗА	Mr. Albert Wong (C604)		Ms. Vicky Tse (C602)		
2	22	2025-04-30	J&M	Ξ	В	ЗА		Mr. Jacky Leung (C604)	34 11 10 4	Mr. Matthew Wong (C602)	
2	22	2025-05-07	V&A	Ξ	E	3A	Mr. Albert Wong (C604)		Ms. Vicky Tse (C602)		
2	23	2025-05-12	J&M	_	В	3A		Mr. Jacky Leung (C604)		Mr. Matthew Wong (C602)	
2	23	2025-05-15	V&A	四	Е	3A	Mr. Albert Wong (C604)		Ms. Vicky Tse (C602)		
2	24	2025-05-20	J&M		В	3A		Mr. Jacky Leung (C604)		Mr. Matthew Wong (C602)	
2	24	2025-05-23	V&A	五	Е	3A	Backup date		Backup date		
2	25	2025-05-28	J&M	Ξ	В	3A		Mr. Jacky Leung (C604)		Mr. Matthew Wong (C602)	



- For the Benefits of Students; &
- Understand the subject nature; &
- Professional Development of Teachers; &
- Creating Atmosphere

For the Benefits of Students

- We cannot predict what their future is
 - But we surely know their future is not as what they are experience right now
- What we teach is not depends on teachers' expertise, but
 - Fit with EDB requirement
 - Professional judgement (how to be "professional"?)

- Understand the subject nature
 - 8-15% (Tech Ed)
 - Depends on how many subject your school have under Tech-Ed
 - Around 1 2 period per week / cycle
 - Not major subject
 - Teacher assignment → may not be CS grad.

- Understand the subject flexibility
 - From EDB
 - Coding education
 - AI education
 - Others
 - Allowance to echo to the swift change of technology

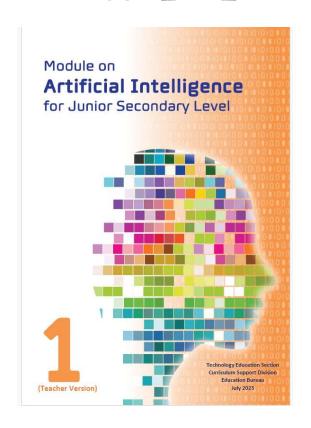
Module on Artificial Intelligence for Junior Secondary Level

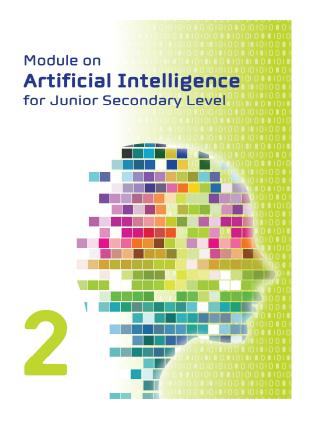
Learning and Teaching Resources

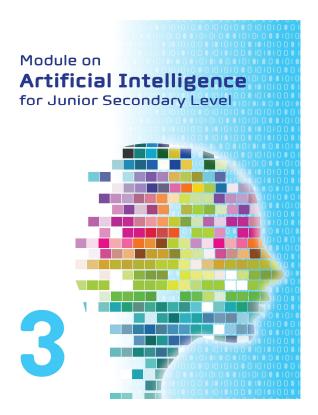
Description		English Version	Chinese Version
Module on Artificial Intelligence for Junior Secondary Level (Booklet 1) (Last update on 31.07.2023)	Booklet 1, Powerpoint, Worksheet	<u>Details</u>	詳細資料
Module on Artificial Intelligence for Junior Secondary Level (Booklet 2) (Last update on 31.07.2023)	Booklet 2, Powerpoint, Worksheet	<u>Details</u>	詳細資料
Module on Artificial Intelligence for Junior Secondary Level (Booklet 3) (Last update on 31.07.2023)	Booklet 3, Powerpoint, Worksheet	<u>Details</u>	詳細資料

https://www.edb.gov.hk/en/curriculum-development/kla/technology-edu/resources/InnovationAndTechnologyEducation/resources.html









https://www.edb.gov.hk/en/curriculum-development/kla/technology-edu/resources/InnovationAndTechnologyEducation/resources.html





https://www.edb.gov.hk/en/curriculum-development/kla/technology-edu/resources/InnovationAndTechnologyEducation/resources.html



	2024-2025									
	Ter	m 1	Term 2							
	Albert	Matthew	Albert	Matthew						
	C604	C602	C604	C602						
S1	microbit	Al	Media Lit Excel	Al						

2024-2025				
	Term 1		Term 2	
	Vicky	Matthew	Vicky	Matthew
S2	Al	Excel	AlphAl	CT / App Inventor 2

Professional Development of Teachers

- PDP for ICT teachers
 - among all subjects
 - should be the top one
- Organized
 - By EDB, University
 - By Professional Association
 - By Partners

Professional Development of Teachers

- Big Projects
 - Coolthink
 - AI for the Future
 - AiTLE Mock Circle
 - AiTLE Free Teaching Resources

AiTLE x HKITSEC : 2025 Solutions Show on eLearning, IT in Education, IT Infrastructure and STEAM/InnoTech; AiTLE 免費教材派發·暨【「中學 IT 創新實驗

室」及「奇趣 IT 識多啲」分享及方案日】

2025-05-24 (SAT) 0930-1330 @ 英華

https://www.aitle.org.hk/?p=12913

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日期:2025-05-24(星期六)

時間:0930-1330

地點:九龍深水埗英華街一號英華書院

內容:

- 中央分享:

- · DPO 分享[小學「奇趣 IT 識多啲」及「中學 IT 創新實驗室」計劃]最新消息(包括 第二期申請最新發展)
- · 「免費教材」派發及內容提供者分享
- · 科大訊飛就人工智能的分享
- ·超越學科的 AI 應用 | 令人飄然的 AI 教育
- Solutions Show:
- ・*數十個伙伴展示不同 eLearning, eAdmin 及 STEAM 方案



https://www.aitle.org.hk/?p=12913

AiTLE x HKITSEC: 2025 Solutions Show on eLearning, IT in Education Infrastructure and STEAM/InnoTech; AiTLE 免費教材派發·暨【「中

室」及「奇趣 IT 識多啲」分享及方案日】



https://www.aitle.org.hk/?p=12913



AiTLE Supporting & Recommend : Jockey Club AI Education for Students Project

誠邀貴校成為先導學校!

計劃由香港賽馬會慈善信託基金策劃及捐助,並由香港中文大學(CUHK)及麻省理工學院(MIT)聯合策動,是一個針對香港中小學而設計的人工智能教育項目。

作為先導學校·貴校將獲得:

- · AI 教學資源(由CUHK、MIT專家及本地教師設計)
- 頂尖教師培訓及活動
- · Generative AI Tools 平台
- · 學生、家長及教師的豐富增潤活動

簡介會詳情:

·日期:2025年6月3日(星期二)

· 時間: 下午 4:30 - 6:00 (4:15 開始登記)

· 地點:香港中文大學 康本國際學術園 LT4 或 Zoom 線上參與

·語言:粵語(附英文簡報)

請參閱附上的先導學校計劃詳情(英文版),了解更多!

有興趣參加的學校·請於 6 月 22 日提交申請表格!



AiTLE Supporting & Recommend : Jockey Club Al Education for Students Project

23 May 2025

Dear School Principal,

Jockey Club AI Education for Students Project Invitation to Become a Pilot School

It is with great enthusiasm that we invite your school to join us as a pilot school for the Artificial Intelligence ("AI") Education for Students Project ("the Project"), initiated and funded by The Hong Kong Jockey Club Charities Trust, and co-created by The Chinese University of Hong Kong ("CUHK") and the Responsible AI for Social Empowerment and Education Initiative (RAISE) at the Massachusetts Institute of Technology (MIT).

As a pilot school, you will gain exclusive resources and support to lead in AI education, including the Generative AI-integrated teaching and learning resources for various subjects crafted by world-class experts and local educators, top-tier teacher training, a subscription to the Generative AI ("GenAI") Tools Platform, and diverse enrichment activities for teachers, students, and parents. Attached are the details of the **Pilot Schools Scheme**, covering project goals, key components, participation benefits, school commitments, timeline, and application process.

AiTLE Supporting & Recommend: Jockey Club Al Education for Students Project

Pilot Schools Scheme: Briefing Session

Date: 3 June 2025 (Tuesday)

Time: 4:30 pm – 6:00pm (Registration starts at 4:15pm)

Venue: LT4, 2/F, Yasumoto International Academic Park,

CUHK or Online via Zoom

Language: Cantonese (supplemented by presentation

slides in English)

Agenda:

- Introduction to the project
- Resources and support for schools
- Roles and responsibilities of pilot schools and application process
- Project evaluation

Pilot School Application Link:

- Q&A

https://cuhk.qualtrics.com/jfe/form/SV 3fPBUUb2hRBdiM6

Registration link:

https://cuhk.qualtrics.com/jfe/f orm/SV 0dYZqnnjyYhg5KK





- Professional Development of Teachers
 - Encourage teachers to have
 - 先管後教
 - Not direct using others' teacher materials to teach

Creating Atmosphere

- Participating in different projects
 - EDB Media Literacy
 - JC Coolthink, AI for the future
 - University AlphAI
 - Professional Association Mock Circle

- Creating Atmosphere
 - Participating in competitions
 - Bonus mark in CL
 - Competitions
 - Visits

- For every academic year, S1 and S2 students are required to join competition(s), visit(s) & talk(s) related to ICT, InnoTech or STEAM
 - Competition(s): max 7 marks
 - Talk(s) & Visit(s): max 3 marks

- Competition(s): max 7 marks
 - Gold award: 7 marks
 - Silver award: 5 marks
 - Bronze award: 4 marks
 - Merit award: 3 marks
 - Participation: 1 mark

- Talk(s) & Visit(s): max 3 marks
 - @ → 1 mark
 - With appreciation from organizer → 2
 marks

THANKS ...



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