

Young Professionals Exhibition & Competition 2025 (YPEC 2025)

Organised by Younger Members Section
The Institution of Engineering and Technology Hong Kong (IET Hong Kong)
Co-Organised by Electrical and Mechanical Services Department (EMSD) of the government of the
Hong Kong Special Administrative Region

Information Sheet for Secondary School Section

1. BACKGROUND

Young Professionals Exhibition & Competition (YPEC) is an annual event organised by the Younger Members Section of IET Hong Kong*. The YPEC acts as a dynamic platform for prospective or young engineers from five different segments (secondary school, sub-degree, undergraduate, postgraduate and open) to exhibit their engineering projects with presentations and booths.

This year, we are excited to announce that the Electrical and Mechanical Services Department (EMSD) will join us as a Co-organizer, further strengthening the connection between industry and academia for this flagship event. Our collaboration aims to inspire young talents to sharpen their creativity and adaptability in response to the rapid technological advancements of the AI era. From pioneering inventions to practical applications, we envision our young professionals not only showcasing their ideas but also becoming influential voices in our society.

YPEC aims at

- enhancing contestants' understanding of and interest in engineering;
- encouraging contestants to apply their technical knowledge and show their talent by delivering their innovative ideas in a professional manner;
- creating a supportive environment to develop contestants' presentation and social skills; and
- providing a platform for young professionals to exchange ideas with professors and students from tertiary education institutions, as well as professional engineers.

Whilst competing for the prizes, participants would also have the opportunity to extend their social networks and appreciate innovative ideas from various engineering perspectives. Welcoming any engineering projects, the YPEC does not pose any restrictions on topic, disciplines or subjects, though an event theme would be set each year as a possible source of inspiration.

* *The Institution of Engineering and Technology (IET) was formed by the Institution of Electrical Engineers (IEE) and the Institution of Incorporated Engineers (IIE) in 2006 and now has more than 154,000 members worldwide. It is the largest professional engineering society in Europe and the second largest in the world.*

2. DETAILS OF YPEC 2025

Date: 20th July 2025 (Sunday)
Time: 9:00am – 6:00pm
Venue: City University of Hong Kong

Theme

Stepping into the transformative era of technology, the theme "Empower" has been chosen for YPEC 2025, highlighting the crucial role of human empowerment through AI in the coming decades. This theme emphasizes how Electrical and Mechanical technology, combined with artificial intelligence, can enhance productivity and creativity, enabling individuals to achieve more. We envision our participants showcasing innovative ideas that inspire and influence their peers, driving forward-thinking solutions. Through this

event, we aim to foster a spirit of engineering exploration, where participants can experience the thrill of presenting their projects and engaging with a vibrant community. We believe that empowering humanity to leverage AI will lead to a more inclusive society, unlocking new opportunities and transformative advancements for all.

Project Scope

The YPEC welcomes participants to break the ceiling and apply their knowledge and creativity across engineering disciplines or subjects. The project should cover technical and engineering aspects which IET concerns. Examples include but are not limited to the following:

- Informatics and Control Technologies
- Electronics and Communications
- Engineering Management
- Manufacturing and Industrial Engineering
- Power and Energy
- Railway and Transport

Eligibility

Only current secondary school students in Hong Kong or Macau aged under 25 years old are eligible to join the Secondary School Section. IET membership is **NOT** a prerequisite for application. The number of places is limited, there is a prelim screening and participating teams will be accepted on a first-come-first-served basis.

3. DELIVERABLES

Each team has to submit:

i) Project Abstract

- Each team has to submit a project abstract of **no more than 200 words in English** to the online registration system, which elaborates the team's idea and the work. The abstract shall be one of the items assessed by judges. Template word file can be found on the YPEC website at <https://www.ietypec.org/downloads/>.
- Each Team can resubmit the abstract with our standard template **on or before 1st June 2025** to submission@ietypec.org by email, clearly stating their **team number** and the **name of affiliation**.
- If abstract amendment is required, the resubmitted abstract **must** be formatted according to our standard template, which is available on YPEC website at <https://www.ietypec.org/downloads/>.
- Accepted abstract will be posted on event materials, internet and provided to the judges and public. The organising committee of the YPEC 2025 reserves the right of reformatting the project abstract to suit the required standards.

ii) Presentation

Each team will have **10 minutes for Presentation** and **5 minutes for Question & Answer** to introduce their product and explain their ideas on the Event Day (**20th July 2025**). The presentation must be conducted **in English**. Students should wear **school uniforms** and use **multi-media presentation aids** for the presentation (e.g. PowerPoint, website, Flash movie etc.). The hardware presentation should be viewed as a supplementary aid rather than the main focus of the presentation.

The presentation material is suggested to contain: *(no restriction except for the Front Page content)*

- Front page must include names of team members, the school name and project title
- Content page
- Introduction and Background
- Main body of presentation
- Conclusion

The following equipment will be provided in the presentation room:

- A microphone system
- A desktop computer and projector

All teams shall submit their presentation materials to submission@ietypec.org by email on or before the due date advised in Section 6 and bring along the presentation file in a USB Drive on the event day. The team could also consider using their own devices and material to present on the event day, yet connection accessories may not be provided. The organiser shall not be responsible for any connection problem, device incompatibility or any other situation happened due to the usage of contestants' devices.

iii) Posters

Each team **shall submit one poster** to explicate their project and can compete for **My Favourite Poster Award** and win the **\$1000 prize**. Those teams should submit their poster designs before poster submission deadline. The poster should be designed based on template provided. Size of poster should be in A0 size.

The poster will be posted on the YPEC website once received. The team with the most accumulated 'Like' on the webpage page before 2:00pm on event day will become the winner of My Favourite Poster Award.

iv) Exhibition Booth

- Each team **is required to set up an exhibition booth** on the YPEC Event Day (**20th July 2025**) for explaining and demonstrating their ideas.
- Each team would be provided with the following materials for their booth (to be confirmed): one board (white in colour), one table and two chairs. 220V AC power sockets will be provided on request. The size of the board and table provided will be informed later. If the exhibit covers more than 1sq meter, please contact us for special arrangements as early as possible.
- IET Hong Kong will not sponsor any material expenses for the presentation and exhibition, and will not be responsible for any damages to the venue and facilities caused by individuals.

v) Product (Optional)

- The "product" could be a model, prototype, photos or videos that demonstrates the project idea

vi) 2-minute Pitching Video (Optional)

- Each team can submit a 2-minute Pitching Video to briefly explain their ideas and compete for **My Favourite Pitching Award** and win the **\$1000 prize**.
- The Pitching Video should not be more than 2 minutes and should be presented in **English**.
- The Pitching Video should briefly introduce the idea and focus on the application as well as the benefits to the society.
- Those teams who would like to compete for the award should submit their video before the video submission deadline advised in Section 6 to submission@ietypec.org, clearly stating their **team number** and the **name of affiliation**.
- The video will be posted on the YPEC online platform once received. The team with the most accumulated 'Like' on the page before 2:00pm on event day will become the winner of My Favourite Pitching Award.
- Should your pitching video not being posted on the YPEC online platform two weeks after your submission, please contact us by email to submission@ietypec.org.
- Should you encounter any issue in submitting the Pitching Video, please contact us by email to submission@ietypec.org.

4. JUDGING CRITERIA

The judging panel will consist of two to four judges, coming from academia and the engineering industry. It will first assess the presentations and then decide on the champion, 1st runner-up, 2nd runner-up, two merit awards and the winning team for the Best Innovation Award. Prior selection of projects will be conducted if necessary.

The YPEC is an event which aims at promoting innovative engineering projects, with a main focus is on participants' project presentations delivered through their multimedia tools, speeches and exhibitions booths. The panels will evaluate the entries based on the following aspects:

- | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| i) Project Content (30%) <ul style="list-style-type: none"> - Subject - Feasibility - Structure - Anticipated Project Impact | ii) Exhibition booth (30%) <ul style="list-style-type: none"> - Content - Attractiveness | iii) Presentation (40%) <ul style="list-style-type: none"> - Presence - Audience Impact - Voice - Time Management - Presentation Aids (Visual, Sound, etc.) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

5. AWARDS

	Certificate	Trophy	Prize
All Participants	✓	–	–
Champion	✓	✓	HK\$1,500
1 st Runner Up	✓	✓	HK\$1,000
2 nd Runner Up	✓	✓	HK\$500
Merit Awards (2 nos)	✓	–	HK\$200
Best Innovation Award	✓	✓	HK\$1,000
My Favourite Pitching Award	✓	–	HK\$1,000
My Favourite Poster Award	✓	–	HK\$1,000

6. SCHEDULE

Due date for online application and abstract submission	1 st June 2025 (Sunday)
Due date for submission of poster and presentation material (e.g. PowerPoint)	15 th June 2025 (Sunday)
Due date for submission of video	29 th June 2025 (Sunday)
YPEC Event Day at City University of Hong Kong	20 th July 2025 (Sunday)

7. APPLICATION

- Candidates can register individually or in a team with the co-authors of the projects or papers (Maximum number of team members: 8).

- Candidates should fill in the online application form on the YPEC website www.ietypec.org on or before the application due date stated in Section 6 of this Information Sheet.
- The aforesaid online application on the YPEC website is the only application method of the YPEC. Should candidates confront any problem or need assistance, please contact us by email at info@ietypec.org
- Late application will not be entertained.
- Each team should submit a **project abstract** of **no more than 200 words** in **English** to the online application system. For resubmitting project abstract, each team should submit it to submission@ietypec.org on or before the submission due date stated in Section 6 of this Information Sheet.
- Each team has to submit their **presentation material** for the presentation (e.g. PowerPoint, website, Flash movie, etc.) to submission@ietypec.org on or before the application due date stated in Section 6 of this Information Sheet.

8. REGULATIONS

1. The abstract and presentation must be written and conducted in English.
2. The submitted abstract must be the original work of the registered authors.
3. Full legal and other relevant responsibilities arising from any possible breach of intellectual property rights are entirely borne by the applicants themselves. The organising committee of YPEC 2025 and IET Hong Kong are not responsible for any claims and legal liabilities arising from such dishonest breach.
4. Participants are required to submit their online application, project abstract, and presentation material before the respective deadlines.
5. The submitted abstract must be formatted strictly according to the paper template provided at our official website www.ietypec.org.
6. Violation of regulations 4 or 5 may cause a penalty on the judging marks or disqualification.
7. During each presentation, the chair will indicate the time after eight minutes and then give final indication after ten minutes. The speaker should then finish the presentation as quickly as possible. If necessary, the chair will interrupt the speaker and ask them to stop immediately in order to be fair to other participants.
8. The final judgment absolutely depends on the decisions of the judging panel on all matters and no appeal against it will be accepted.
9. All the personal data provided by means of this event will be treated seriously in strict confidence. It will only be used for activities relating to the YPEC 2025. In accordance with the Personal Data (Privacy Ordinance) Cap.486, the personal data would not, without your prescribed consent, be used for a new purpose or disclosed to any third party.
10. By entering the YPEC, entrants will be consenting to their organisation and innovation being made available to the public. It is, with some limited exceptions, essential that the invention has not been disclosed to the public, or otherwise 'make available to the public', before a patent application has been filed. Therefore, any entrants considering patent protection for their ideas are advised to take appropriate action, such as seeking professional advice, before submitting applications.
11. The organising committee of the YPEC 2025 and IET Hong Kong reserve the rights to explain and modify the regulations without prior announcement.

9. CONTACT US

Details and updates of the YPEC 2025 are available on the official website: www.ietypec.org and Facebook: <https://www.facebook.com/ietypec> (or search "YPEC" on Facebook). For enquiries, please contact us by email to info@ietypec.org.

Young Professionals Exhibition & Competition 2025 (YPEC2025)

青年科技專才展覽及比賽 2025

由工程及科技學會香港分會青年會員部主辦

中學組比賽資料

1. 背景

「青年科技專才展覽及比賽」(YPEC) 是工程及科技學會香港分會(IET Hong Kong)*青年會員部一年一度的活動。YPEC 是一個供學生及年青工程師以口頭報告及展覽形式展示研習成果的平臺，而比賽部分分為五個組別：中學組、專上組、大學組、研究生組及公開組。

YPEC 旨在

- 提高參賽者對工程及科技的認識和興趣；
- 鼓勵參賽者運用專門技術和知識以專業手法展示創新意念；
- 提供優良環境給參賽者學習專業報告技術及社交技巧；及
- 提供一個讓中學生與資深工程師、大學教授、大學生及大專生交流的平台。

在競逐各獎項的同時，參賽者亦可把握機會擴展社交網絡，並可以從不同方面欣賞工程及科技界的創新意念。YPEC 歡迎任何工程或科技研習項目，在題目、科目及主題上並不設限。然而，參賽者亦可以參考應屆 YPEC 的大會主題作為研習項目的靈感來源。

* 工程及科技學會(IET)由電機工程師學會 (IEE) 及實務工程師學會 (IIE) 於 2006 年合併而成，全球擁有 154,000 多名會員，是歐洲最大、世界第二大的工程專業學會。

2. YPEC 2025 比賽詳情

日期： 2025 年 7 月 20 日 (星期日)

時間： 上午 9 時至下午 6 時

地點： 香港城市大學

大會主題

步入變革性的科技時代，YPEC 2025 選擇了「賦能」作為主題，突顯人工智慧在人類未來幾十年中的重要角色。這個主題強調了電氣和機械技術結合人工智慧如何提升生產力和創造力，使個體能夠實現更多。我們預見參與者將展示創新的想法，激勵並影響同儕，推動前瞻性的解決方案。通過這次活動，我們旨在培養工程探索的精神，讓參與者體驗展示其項目的興奮，並與充滿活力的社群互動。我們相信，賦予人類利用人工智慧的能力將促進更具包容性的社會，為所有人開啟新的機會和變革性進步。

比賽範圍

參賽作品可以任何工程科目為主題，例子(包括但不限於)以下範疇：

- 信息與控制技術
- 電子與通信
- 工程管理
- 製造及工業工程
- 電力和能源
- 鐵路和交通

參賽資格

參賽者須為年齡二十五歲以下並於香港或澳門就讀之全日制中學生。非 IET 會員亦可參加。參賽名額有限，大會將以先到先得形式接受申請。

3. 參賽要求

每隊參賽隊伍須提交：

1、 項目摘要

- 每隊參賽隊伍需於網上報名表格內上載**不多於 200 字(英文)**的項目摘要，對項目進行簡短描述。此項目摘要將會是評分項目之一。標準格式可於大會網頁 <https://www.ietypec.org/downloads/> 下載。
- 如需更新摘要內容，參賽隊伍可在 **2025 年 6 月 1 日或之前**，根據大會的標準格式，電郵至 submission@ietypec.org。並請清楚註明自己的**隊伍號碼及所屬學校**。
- 如須重新提交項目摘要，項目摘要標準格式可於大會網頁 <https://www.ietypec.org/downloads/> 下載。
- 項目摘要一經接納將被刊登在活動的場刊或網上供評審及入場人士查閱。大會保留重新編排項目報告內容的權利，以符合場刊所需標準。

2、 簡報及簡報工具

參賽隊伍須於比賽日 (2025 年 7 月 20 日) 穿著**整齊校服**，以英文進行 **10 分鐘的簡報和 5 分鐘的答問環節**，介紹並解釋他們的製成品和意念。參賽者可利用**多媒體簡報工具**進行報告，例如: PowerPoint，網頁或 Flash movie 等。簡報工具應被視為補充輔助，而不是演說的主要焦點。

簡報的建議大綱如下: (除首頁外, 簡報內容不設限制)

- 首頁-必須包含隊員名稱、學校名稱及主題
- 目錄
- 介紹及背景
- 內容
- 總結

參賽隊伍進行報告時, 大會將提供:

- 麥克風
- 電腦及投映器

參賽隊伍應預先於本文第 6 節內列明的截止日期或之前電郵簡報至 submission@ietypec.org, 並於比賽當日自備儲有簡報的 USB 記憶棒。參賽隊伍亦可考慮自備個人電腦或其他裝置進行簡報, 惟隊伍必須同時帶備所需接駁器材; 若出現接駁問題、裝置不相容或其他因自備裝置出現的情況, 大會概不負責。

3、海報

每個團隊須提交一張海報來說明他們的項目, 並可以競逐「我最喜愛海報獎」以及港幣\$1,000 元獎金。這些團隊應在海報提交截止日期之前提交他們的海報設計。海報應根據提供的模板設計。海報尺寸應為 A0 尺寸。

從接受報名申請開始, 大會收到海報後, 將會發佈在 YPEC 官方網頁上。於比賽當天下午 2 時正前累積最多「讚好」的隊伍將成為「我最喜愛海報獎」的得獎者。

4、展覽攤位

- 每隊參賽隊伍須於比賽日(2025 年 7 月 20 日) 設立一個展覽攤位, 解釋及展示他們的製成品。
- 大會提供給每隊參賽隊伍的物資包括(暫定): 展板一幅(白色)、桌子一張及椅子兩張。如有需要, 大會亦能提供 220VAC 電源插座。大會將於稍後通知參賽隊伍有關展板和桌子的大小。如參賽隊伍需展示佔地超過 1 平方米的展品, 請及早知會大會以作安排。
- 工程及科技學會香港分會不會贊助任何個別簡報和展覽攤位所需的額外支出, 或為個別人士對場地及設施造成的破壞負責。

5、製成品 (選擇性)

每隊參賽隊伍須按比賽主題製作一件作品(例如模型、樣版、圖片或錄像等)以表達參賽意念。

6、2 分鐘演說影片 (選擇性)

每隊參賽隊伍可提交一段 2 分鐘的演說影片, 簡單解釋其參賽項目, 並競逐「我最喜愛演說獎」以及港幣 \$1,000 元獎金

- 參賽影片不可超過 2 分鐘，並且應以英語表達。
- 參賽影片應主要圍繞其項目的構想、其應用以及項目對社會的好處。
- 參賽隊伍必須在本文第 6 節中的「遞交 2 分鐘演說影片截止日期」之前，將其影片提交到 submission@ietypec.org，並清楚註明自己的隊伍號碼及所屬學校。
- 從接受報名申請開始，大會收到影片後，將會發佈在 YPEC 官方頁面上。於比賽當天下午 2 時正前累積最多「讚好」的隊伍將成為「我最喜愛演說獎」的得獎者。
- 如參賽隊伍之演說影片並未於遞交後的兩個星期內發佈至 YPEC 官方頁面上。請電郵至 submission@ietypec.org 與我們聯絡。
- 如參賽隊伍在遞交演說影片時遇到任何問題，請電郵至 submission@ietypec.org 與我們聯絡。

4. 評分標準

- 評審委員會將由二至四位來自學術及工程界的專業人士組成。評審將首先評估各組的報告，再選出冠、亞、季軍、兩名優異獎及最具創意獎。
- 如有需要，大會將對參賽作品作初步甄選。
- YPEC 旨在發掘具創新的工程意念，讓參賽者透過多媒體工具、演講及展覽攤位來闡述意念。

評審委員會將就以下項目進行評分：

i) 項目內容 (30%)

- 主題
- 可行性
- 結構
- 預期項目影響

ii) 展覽攤位 (30%)

- 內容
- 吸引力

iii) 簡報(40%)

- 表達
- 對觀眾的感染力
- 時間管理
- 簡報輔助工具(視覺或聽覺等)
- 聲線

5. 獎項

	證書	獎杯	獎金
所有參加者	✓	—	—
冠軍	✓	✓	HK\$1,500
亞軍	✓	✓	HK\$1,000
季軍	✓	✓	HK\$500
優異獎(兩名)	✓	—	HK\$200
最具創意獎	✓	✓	HK\$1,000
我最喜愛演說獎	✓	—	HK\$1,000
我最喜愛海報獎	✓	—	HK\$1,000

6. 時間表

網上截止報名及項目摘要截止提交日期	2025 年 6 月 1 日 (星期日)
遞交海報及多媒體簡報截止日期	2025 年 6 月 15 日 (星期日)
遞交 2 分鐘演說影片截止日期	2025 年 6 月 29 日 (星期日)
YPEC 活動日期 (於香港城市大學舉行)	2025 年 7 月 20 日 (星期日)

7. 報名方法

- 參賽者可以個人名義或隊伍形式參賽，每隊最多包括 8 位學生。
- 參賽者須於本文第 6 節內列明的截止報名日期或之前填妥並提交 YPEC 網頁 www.ietypec.org 內之網上報名表格。
- 上述於 YPEC 網頁內之網上報名表格為 YPEC 的唯一報名方法。如遇問題或需要協助，敬請透過電郵至 info@ietypec.org 聯絡我們。
- 任何逾期申請將不被受理。
- 參賽隊伍需於網上報名表格內上載不多於 200 字(英文)的摘要，對項目進行簡短描述。如需更新摘要內容請於本文第 6 節內列明的遞交項目摘要截止日期或之前電郵至 submission@ietypec.org。
- 每隊參賽隊伍須於本文第 6 節內列明的截止日期或之前將其簡報 (例如: PowerPoint、網頁或影片等) 電郵至 submission@ietypec.org。

8. 規章

1. 項目摘要及匯報必須以英文書寫及進行。
2. 提交的項目必須為參賽者原創。

3. 任何可能違反知識產權和其他相關責任完全由參賽者自行承擔。YPEC 2025 及 IET Hong Kong 並不負責的任何索賠和法律責任。
4. 參賽隊伍必須於各截止日期前提交報名表格，摘要及項目報告。
5. 提交的項目摘要必須嚴格根據範本格式，任何其他格式概不受理，參賽者可參考大會網頁上可供下載的格式樣本。
6. 參加者若違反規章 4 或規章 5 將被扣分甚或取消資格。
7. 當進行口頭匯報時，工作人員會為參賽者計時，並於限時前 2 分鐘及限時完結時提示參賽者。參賽者應該盡可能在限時前完成演講，否則評審有權隨時中止參賽者的演講，以示公正。
8. 比賽的最終結果完全依照評審委員會的判定，參賽者不得上訴。
9. 參賽者提供給大會的個人資料將被嚴格保密。資料只會被用於 YPEC 2025 相關活動。根據個人資料(私隱)條例，在未獲參賽者同意的情況下，其個人資料將不會被用於其他用途或提供給第三者。
10. 在成功進入 YPEC 2025 的同時，參賽者即已同意將其代表機構及創新項目公開。由於大部分專利申請要求申請項目在獲得專利前不可被公開，僅此建議參賽者如有意欲就參賽項目申請專利，應先向有關機構尋求專業意見。
11. 青年科技專才展覽及比賽 2025 和工程及科技學會香港分會 (IET Hong Kong) 委員會將保留解釋和修改規定的權利。

9. 聯絡方法

「青年科技專才展覽及比賽 2025」的詳情和最新資料已上載到大會網頁: www.ietypec.org 及 Facebook 專頁: <https://www.facebook.com/ietypec> (或在 Facebook 搜尋 “YPEC”)。如有查詢，請電郵至 info@ietypec.org 與我們聯絡。

比賽資料內容以英文版本為準。