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انوكړه چيقتا دولي قغيران مودا مهكوتا ۲۰۲۳

**THE CROWN PRINCE CIPTA AWARD 2023**

**INNOVATIONS FOR SUSTAINABLE DEVELOPMENT GOALS**



THE CROWN PRINCE CIPTA AWARD

**SUSTAINABLE  
DEVELOPMENT  
GOALS**

CIPTA 2023 supports the Sustainable Development Goals

**HANDBOOK**



انوكړه چيقتا دولي قغيران مودا مهكوتا ۲۰۲۳

**THE CROWN PRINCE CIPTA AWARD 2023**

**INNOVATIONS FOR SUSTAINABLE DEVELOPMENT GOALS**



**CREATIVE, INNOVATIVE PRODUCT AND TECHNOLOGICAL ADVANCEMENT (CIPTA)  
COMPETITION**

## Table of Contents

	Page
1. Scope of the Competition	5
2. Objectives of CIPTA	5
3. The CIPTA Logo	6
4. Theme	8
5. Patron	9
6. Categories of Competition	10
6.1 Local Categories	10
6.2 Smart Junior Competition	15
6.3 ASEAN Categories	19
7. Important Dates	26
8. Beyond CIPTA	26
9. Post-Competition Report and Recommendations	27
10. The Trophy and Design Concept	28
Appendix A Flow of CIPTA 2021 Competition Procedures	29
Appendix B Past CIPTA Winners	30

## **1. Scope of the Competition**

The aim of the competition is to encourage and to develop the culture for creations, inventions and innovations in Brunei Darussalam. The competition is appropriately called the **Creative, Innovative Product and Technological Advancement** or **CIPTA**. The acronym CIPTA, is also a Malay word meaning to create or to invent. The competition is held on a biennial basis. The inauguration of the competition was held in 2005. Universiti Teknologi Brunei (UTB), formerly known as Institut Teknologi Brunei (ITB) is the pioneer and organiser of the competition.

The competition covers all areas of Science, Engineering and Technology. It is open to all schools, technical and tertiary academic institutions, government and private organisations and the general public.

## **2. Objectives of CIPTA**

The objectives of CIPTA are to:

- inspire the youth and the public to develop creative products, processes or technologies for national and ASEAN aspirations;
- encourage inventions and innovations from the participants;
- recognise and award creative talents in the country as well as at ASEAN level;
- encourage research and development in Brunei Darussalam;
- promote industrial and manufacturing processes, technological products development, commercialisation and entrepreneurship in Brunei Darussalam;
- motivate and instill the culture of science, engineering and technology to the youth and the public;
- foster collaborative linkages within Brunei Darussalam and ASEAN region.

### 3. The CIPTA Logo

A suitable logo was designed through a competition among Universiti Teknologi Brunei (UTB)'s staff and students. The winning logo design was created by **Pg Dr Haji Md Esa Al-Islam bin Pg Haji Md Yunus**, former Principal Lecturer of Mechanical Engineering Programme Area / former Assistant Vice Chancellor (Academic) of UTB.



The acronym for the “**CROWN PRINCE CIPTA AWARD**” is designed in the form of flowing “ribbons” to reflect vibrancy and innocence that represent the youth.



*represents  
the letter C  
for Crown*

*represents  
the letter P  
for Prince*

*represents  
the letter C  
for CIPTA*

*represents  
the letter A for  
Award Globe and  
Abstract Motifs*

The abstract motifs which surround the globe indicate that this award is a stepping stone for Bruneians to be at par with other international counterparts.



The Map of Brunei Darussalam with its national colours reflects the extent of the competition which represents the Bruneians with their creativity, innovative and competitiveness while maintaining their traditional values.

The bubbles floating out of the map of Brunei Darussalam and revolving around the globe represent excellence, quality, imaginative, creativity and innovativeness which reflect the dawn of a new era of local inventors. It also signifies teamwork as one of the objectives of the CIPTA award.

The use of colours in the logo represents the hard work that potential local inventors experience in creating fresh ideas with knowledge and available resources. These basic colours also represent the colours of Universiti Teknologi Brunei as the pioneer and organising body of the prestigious award.

Overall, the logo "THE CROWN PRINCE CIPTA AWARD" reflects creative and innovative product and technological advancement from potential local inventors to be awarded nationally as well as to be recognised internationally.

## 4. Theme

The theme for CIPTA 2023 Competition is:

### **“Innovations for Sustainable Development Goals”**

Abstract:

The evolution of technological innovations and inventions has seen rapid growth and has benefitted global society. Despite this growth, it has been observed that today's world still faces critical challenges. It is believed that there are massive asymmetries in the distribution of wealth in addition to poor preservation of our planet.

The 2030 Agenda of the Sustainable Development Goals (SDGs), as adopted by United Nations Member States in September 2015, sets the blueprint of a global response to normalise the global issues by eradicating poverty, combating inequality and protecting the planet through the tackling of climate change.

The theme “Innovations for Sustainable Development

Goals” has been developed for CIPTA 2023 to respond to the 2030 Agenda. This is also in line with Brunei Darussalam's National Vision, Wawasan Brunei 2035. Brunei Darussalam has given profound observations by focusing on nine (9) SDGs goals, namely: Goal 1 - on no poverty, Goal 2 - on zero hunger, Goal 3- on good health & well-being, Goal 8 - on decent work & economic growth, Goal 10 - on reduced inequalities, Goal 12 - on responsible consumption & production, Goal 13 - on climate action, Goal 16 - on peace, justice & strong institutions and Goal 17 - on partnerships in depth\*.

CIPTA 2023 Competition invites visionary innovators within Brunei Darussalam and other ASEAN countries to invent and innovate products that revolves around the 17 elements of Sustainable Development Goals (SDGs), to provide integrated solutions to respond to the challenges the world is facing while ensuring inclusiveness among the global society.



## **5. Patron**

The theme is very much in-line with His Majesty Sultan Haji Hassanal Bolkiah Mu'izzaddin Waddaulah Ibni Al-Marhum Sultan Haji Omar 'Ali Saifuddien Saádul Khari Waddien, Sultan and Yang Di-Pertuan of Negara Brunei Darussalam's Titah for the country to continuously aspire to be widely recognized for its educated, highly skilled and accomplished people, with a high quality of life and a dynamic and sustainable economy by 2035, while preserving its unique social, cultural and traditional values\*\*. His Majesty underlined that for the country to achieve the goals and targets of SDGs, it would require unified action and cooperations from national, regional and international bodies.

\*Sustainable Development Goals, Brunei Darussalam Sustainable Development Goals Annual Report 2021.

\*\*2020 United Nations High-Level Political Forum on Sustainable Development, Voluntary National Review Report of Brunei Darussalam.

The competition is graced with the patronage of the **Crown Prince and Senior Minister at the Prime Minister's Office, His Royal Highness Prince (Dr.) Haji Al-Muhtadee Billah** with the consent of **His Majesty the Sultan Haji Hassanal Bolkiah Mu'izzaddin Waddaulah ibni Al-Marhum Sultan Haji Omar 'Ali Saifuddien Sa'adul Khairi Waddien and Yang Di-Pertuan of Brunei Darussalam**. The competition therefore carries the prestigious Crown Prince's Creative, Innovative Product and Technological Advancement (CIPTA) award or the Crown Prince's 'CIPTA' Special Award for the overall winner of the competition.

## 6. Categories of Competition

The CIPTA 2023 competition is comprised of three main categories, namely, Local Categories: 1, 2 and 3, Smart Junior Competition and ASEAN Categories.

### 6.1 Local Categories

The Local Categories comprises of three categories namely:

**Category 1** *Creating New Product, Process or Technology.*

**Category 2** *Modifying Existing Product, Process or Technology.*

**Category 3** *Creating New or Modifying Existing Product, Process or Technology, by Young Inventors.*

**Category 1** covers the invention of a new product, process or technology that did not exist previously.

**Category 2** covers a new modification(s) of an existing product, process or technology that can improve or enhance its function or quality.

**Categories 1 and 2** are open to the members of the public and institutions of higher learning, who have developed or wish to develop a suitable product, process or project. These categories are open to individuals as well as teams.

**Category 3** is open to Bruneian school students ranging from the upper secondary to pre-university levels or equivalent to Year 10 to Year 13 on Monday, 9 January 2023. This category covers the invention of a new product, process or technology as well as modification(s) to any existing product, process or technology, that can improve or enhance its functionality or quality.

#### 6.1.1 Rules and Regulations

1. The entry and proposal forms can be found on the website <http://conference.utb.edu.bn/cipta>.
2. The innovation/product submitted for Local **Categories 1, 2 and 3** must be in the form of **hardware** or a

combination of **hardware and software**. Software-only products are not acceptable.

3. The **Local Categories** are open to all **Bruneian** residents with a valid Brunei identity card.
4. For **Category 3**, the participant(s) must still be **enrolled** in the Bruneian school with levels ranging from the upper secondary to pre-university or equivalent to **Year 10 to Year 13 on Monday, 9 January 2023**.
5. A participant can join the competition as an **individual** or as a **member of a team**. Each team can have a **maximum of three members** only (including the team leader). No changes of team members are allowed after the submission deadline.
6. A participant is only allowed to be in **one entry per category** that he/she is eligible for.
7. For **Category 3**, each entry must be **supervised** by a teacher and be nominated and endorsed by the participant's institution. **Each participant** can be involved in **one entry** only.

8. For the **individual entry**, the participant must be a **yellow/purple** identity card holder.
9. For the **team entry**, there must be **at least one yellow/purple** identity card holder within the team.
10. The entry fees for these categories are:
  - **BND 80.00** for **Categories 1 and 2**, and
  - **BND 40.00** for **Category 3**.
11. The fee is **non-refundable** and can be paid in either:
  - a) **cash, cheque** (payable to **Universiti Teknologi Brunei**), **debit/credit cards**, or
  - b) **bank account transfer**,

\*Upon submitting: the **entry form, proposal form** and scanned copies of the photographic identification pages of the **identity cards / passports** of **all participants**.

  - a) Payment by **cash, cheque** or with **debit/credit cards** can be made at:

Finance Section  
First floor, Administration Block  
Universiti Teknologi Brunei (UTB)  
Tungku Highway  
Gadong BE1410  
Brunei Darussalam

b) Payment details for **bank account transfer** are as below:

*Account Name* : *Universiti Teknologi Brunei*  
*Account No.* : *00-001-01-0045184*  
*Bank* : *Bank Islam Brunei Darussalam*  
*Bank Address* : *Lot 159, Jalan Pemancha,  
Bandar Seri Begawan BS8711,  
Negara Brunei Darussalam*  
*Swift Code* : *BIBDBNBB*

12. Once the bank transfer has been made, the **copy of slip or bank advice** must be **submitted and uploaded** together with the other related documents (please refer to Section 6.1.1 clause 11).

13. For **Category 3**, the **Approval and Endorsement** section of the entry form must be filled in by the Supervisor, accordingly.
14. For **ALL Categories**, the **Declaration** section of the entry form must be electronically signed, accordingly. **Incomplete or late entries will not be accepted.**
15. Each entry needs to provide a **preliminary description** of the innovation/product in the **Proposal form**. Further instructions can be found in the form. It can be written either in **Malay or English language**. The final innovation/product submitted for the judging phase must not be significantly different from the preliminary description.
16. The entries will be reviewed for eligibility and participants of shortlisted entries will be notified.
17. Participants of **shortlisted entries** will be required to produce a **final report** that provides a detailed description of the innovation/product. Further instructions will be provided accordingly.

18. The innovation/product must be **original** and has **not been published, submitted to other international competitions** or copied from other sources. Many past entries have been disqualified as a result of having been entered into other competitions and the participants are hereby informed of this.
19. **Before the judging day**, the innovation/product has to be **set-up** and displayed for judges' inspection, either in prototype form or by other appropriate means if the former is not feasible, at UTB, Brunei Darussalam.
20. **During the judging day**, participants have to **deliver a presentation** on the innovation/product for the purpose of evaluations at UTB, Brunei Darussalam.
21. **Participants** need to **make their own arrangements** to come in person to set-up and present their innovations/products at UTB, Brunei Darussalam. UTB, as the organiser, will not be providing any support in presenting their innovations/products except for basic equipment like a projector and a computer.

22. **All decisions of UTB (including those of the short-listing and judging panels) are final, and no correspondence will be entered into.**

### **6.1.2 Assessment and Criteria**

Suitable judges for the assessment and evaluation of the work will be identified and appointed by the organising committee. The rules and guidelines for judging the work will also be prepared by the organising committee. The assessment of the entries will be conducted in two stages:

#### **Stage 1: Preliminary Assessment**

All entries will undergo a preliminary assessment. Only qualified entries will be allowed to proceed into Stage 2 of the competition.

## Stage 2: Final Assessment

Teams and individuals of the selected projects will have to present and exhibit or to make arrangements to be assessed by the judges for their final assessments. The **winners** of **Categories 1 and 2** may be **nominated** for the **Crown Prince Special Award** and will **compete** against the **nominee** from the **ASEAN New Invention & Innovation Category**.

The criteria for judging the projects may include the following:

1. Novelty and Creativity.
2. Deployment of end product.
3. Relevance to the theme.
4. Social, Economic and Sustainable design considerations.
5. Report and Presentation of project.

## 6.1.3 Awards and Prizes

### **Category 1** *Creating New Product, Process or Technology*

- 1st Prize – B\$ 6,000.00 Cash, a trophy & certificate
- 2nd Prize – B\$ 4,000.00 Cash, a trophy & certificate
- 3rd Prize – B\$ 2,000.00 Cash, a trophy & certificate
- Two Consolation Prizes – B\$ 500.00 Cash and certificates

### **Category 2** *Modifying Existing Product, Process or Technology*

- 1st Prize – B\$ 6,000.00 Cash, a trophy & certificate
- 2nd Prize – B\$ 4,000.00 Cash, a trophy & certificate
- 3rd Prize – B\$ 2,000.00 Cash, a trophy & certificate
- Two Consolation Prizes – B\$ 500.00 Cash and certificates

### **Category 3** *Creating New or Modifying Existing Product, Process or Technology, by Young Inventors*

- 1st Prize – B\$ 3,000.00 Cash, a trophy & certificate
- 2nd Prize – B\$ 2,000.00 Cash, a trophy & certificate
- 3rd Prize – B\$ 1,000.00 Cash, a trophy & certificate

Two Consolation Prizes – B\$ 250.00 Cash and certificates

All participants will be issued with participation certificates.

### **Special Award - The Crown Prince CIPTA Award**

**Winners from Local Categories 1 and 2** will be **eligible to compete** with the **winner from the ASEAN – New Invention & Innovation Category** for the **Crown Prince Special Award** to win the grand prize of B\$8,000 and a Trophy.

## **6.2 Smart Junior Competition**

The Smart Junior Competition is open to Bruneian school students from the lower secondary levels or equivalent to **Year 7 to Year 9 on Monday, 9 January 2023**. Each group of participant(s) must submit a report which captures their innovative idea on a new technological product or process or a modification(s) of an existing product, process or technology, that can improve or enhance its function or

quality. The objective of this competition is to **encourage and promote** creativity and innovation among the younger generation.

The **participants do not need** to prepare any **product or process prototype**, however, as part of the assessment criteria, they will be required to present their idea through:

- a) a report,
- b) an A1-sized poster, and
- c) a short presentation (maximum of 15 minutes) to the evaluators.

### **6.2.1 Rules and Regulations**

1. The entry and proposal forms can be found on the website <http://conference.utb.edu.bn/cipta>.
2. The Smart Junior competition is for creating new or modifying an existing product, process or technology. However, the **participants are only required to present their ideas** and **no product or process prototype** is

required to be prepared.

3. The competition is open to **Bruneian** residents with a valid Brunei identity card and who are still enrolled in a Bruneian school from the lower secondary levels or equivalent to **Year 7 to Year 9 on Monday, 9 January 2023**.
4. A participant can join the competition as an **individual** or as a **member of a team**. Each team can have a **maximum of three members** only (including the team leader). No changes of team members are allowed after the submission deadline.
5. A participant is only allowed to be in **one entry per category** that he/she is eligible for.
6. Each entry must be **supervised** by a teacher and be nominated and endorsed by the participant's school. **Each participant** can be involved in **one entry** only.
7. For the **individual entry**, the participant must be a **yellow/purple** identity card holder.
8. For the **team entry**, there must be at least one **yellow/**

**purple** identity card holder within the team.

9. The entry fee for this category is **BND 20.00**.
10. The fee is **non-refundable** and can be paid in either:
  - a) **cash, cheque** (payable to **Universiti Teknologi Brunei**), **debit/credit cards**, or
  - b) **bank account transfer**,

\*Upon submitting: the **entry form, proposal form** and scanned copies of the photographic identification pages of the **identity cards / passports of all participants**.

- a) Payment by **cash, cheque** or with **debit/credit cards** can be made at:

Finance Section  
First floor, Administration Block  
Universiti Teknologi Brunei (UTB)  
Tungku Highway  
Gadong BE1410  
Brunei Darussalam



b) Payment details for **bank account transfer** are as below:

*Account Name* : *Universiti Teknologi Brunei*  
*Account No.* : *00-001-01-0045184*  
*Bank* : *Bank Islam Brunei Darussalam*  
*Bank Address* : *Lot 159, Jalan Pemancha,*  
*Bandar Seri Begawan BS8711,*  
*Negara Brunei Darussalam*  
*Swift Code* : *BIBDBNBB*

11. Once the bank transfer has been made, the **copy of slip or bank advice** must be **submitted and uploaded** together with the other related documents (please refer to Section 6.2.1 clause 10).
12. For **Smart Junior Competition**, the **Approval** and **Endorsement** section of the entry form must be filled in by the Supervisor, accordingly.
13. The **Declaration** section of the entry form must be electronically signed by the Supervisor, accordingly.  
**Incomplete or late entries will not be accepted.**

14. Each entry needs to provide a **preliminary description** of the innovative idea in the **Proposal form**. Further instructions can be found in the form. It can be written either in **Malay or English language**.
15. The entries will be reviewed for eligibility and participants of shortlisted entries will be notified.
16. Participants of **shortlisted entries** will be required to produce a **final report** that provides a detailed description of the innovative idea on a new technological product or process or a modification(s) of an existing product, process or technology, that can improve or enhance its function or quality.
17. The innovative idea must be **original** and has **not been published, submitted to other international competitions** or copied from other sources. Many past entries have been disqualified as a result of having been entered into other competitions and the participants are hereby informed of this.
18. An **A1-sized poster** describing the concept of the

innovative idea has to be prepared. **Before the judging day**, the poster has to be **set-up** and displayed for judges' inspection at Universiti Teknologi Brunei (UTB), Brunei Darussalam.

19. **During the judging day**, participants have to **deliver a presentation** on the concept of the innovative idea for the purpose of evaluations at UTB, Brunei Darussalam. The presentation content should be based on the participant's final report. All members must be present on the judging day except for cases of unforeseen circumstances.
20. **Participants** need to **make their own arrangements** to come in person to set-up and present at UTB, Brunei Darussalam. UTB, as the organiser, will not be providing any support in presenting their innovations/products except for basic equipment like a projector and a computer.
21. **All decisions of UTB (including those of the shortlisting and judging panels) are final, and no correspondence**

**will be entered into.**

## 6.2.2 Assessment and Criteria

Suitable judges for the assessment and evaluation of the work will be identified and appointed by the organising committee. The rules and guidelines for judging the work will also be prepared by the organising committee. The assessment of the entries will be conducted in two stages:

### Stage 1: Preliminary Assessment

All entries will undergo a preliminary assessment. Only qualified entries will be allowed to proceed into Stage 2 of the competition.

### Stage 2: Final Assessment

Teams and individuals of the selected projects will have to present and exhibit or to make arrangements to be assessed

by the judges for their final assessments.

The criteria for judging the report and presentation may include the following:

1. Novelty and Creativity.
2. Social and Sustainable considerations.
3. Relevance to the theme.
4. Poster, report and presentation.

### 6.2.3 Awards and Prizes

- 1st Prize – B\$ 1,000.00 Cash, a trophy & certificate  
2nd Prize – B\$ 800.00 Cash, a trophy & certificate  
3rd Prize – B\$ 500.00 Cash, a trophy & certificate  
Two Consolation Prizes – B\$ 200.00 Cash and certificates

All participants will be issued with participation certificates.

## 6.3 ASEAN Categories

The ASEAN categories comprises of two categories for members from ASEAN countries other than Brunei Darussalam, namely:

### 1) New Invention & Innovation Category

### 2) Young Inventor Category

**New Invention & Innovation Category** covers the invention of a new product, process or technology as well as a modification(s) to any existing product, process or technology, that can improve or enhance its functionality or quality.

**Young Inventor Category** is open to ASEAN school students in the upper secondary schools or pre-university or equivalent **with an age range between 15 and 18 years old on Monday, 9 January 2023**. This category covers the invention of a new product, process or technology as well

as a modification(s) to any existing product, process or technology, that can improve or enhance its function or quality.

### 6.3.1 Rules and Regulations

1. The entry and proposal forms can be found on the website <http://conference.utb.edu.bn/cipta>.
2. The ASEAN New Invention and Innovation competition is for the invention of a new product, process or technology as well as a new modification(s) to any existing product, process or technology, that can improve its function or quality.
3. The ASEAN Young Inventor category is for the invention of a new product, process or technology as well as a modification(s) to any existing product, process or technology. This category is limited to Young Inventors only **with age range between 15 and 18 years old on Monday, 9 January 2023**.
4. The **innovation/product submitted** must be in the

form of **hardware** or a combination of **hardware and software**. Software only products are not acceptable.

5. The ASEAN New Invention and Innovation category, and the Young Inventors category are open to **residents of all ASEAN countries**, excluding Brunei Darussalam. For the **ASEAN Young Inventor category**, the participants must still be **enrolled** in a school in an ASEAN country **with an age range between 15 and 18 years old on Monday, 9 January 2023**.
6. A participant can join the competition as an **individual** or as a **member of a team**. Each team can have a **maximum of three members** only (including the team leader). No changes of team members are allowed after the submission deadline.
7. A participant is only allowed to be in **one entry per category** that he/she is eligible for.
8. For the **Young Inventor Category**, each entry must be **supervised** by teacher and be nominated and endorsed by the participant's school.

9. The entry fees for the ASEAN categories are:

**New Invention & Innovation Category** All ASEAN Countries USD 200

**Young Inventor Category** All ASEAN Countries USD 100

10. The fees are **non-refundable** and should be wired by Bank Telegraphic Transfer to **Universiti Teknologi Brunei**.

\*Upon submitting: the **entry form, proposal form** and scanned copies of the photographic identification pages of the **identity cards / passports of all participants**.

11. Participants should ensure that the bank charges in **both** their home country and in Brunei have been factored in such that the exact amount will reach **Universiti Teknologi Brunei**.

12. These fees should be paid to the following account:

*Account Name* : *Universiti Teknologi Brunei*  
*Account No.* : *00-001-01-0045184*  
*Bank* : *Bank Islam Brunei Darussalam*

*Bank Address* : *Lot 159, Jalan Pemancha,  
 Bandar Seri Begawan BS8711,  
 Negara Brunei Darussalam*

*Swift Code* : *BIBDBNBB*

13. Once the bank transfer has been made, the **copy of slip or bank advice** must be **submitted and uploaded** together with the other related documents (please refer to Section 6.3.1 clause 10).
14. Receipt confirmation of the entry fee will be notified to the participants together with further information.
15. **For Young Inventor Category**, the **Approval and Endorsement** section of the entry form must be filled in by the Supervisor, accordingly.
16. **For ALL Categories**, the **Declaration** section of the entry form must be electronically signed, accordingly. **Incomplete or late entries will not be accepted.**
17. Each entry needs to provide a **preliminary description** of the innovation/product in the **Proposal form**. Further instructions can be found in the form. The description

has to be written in **English language**. The final innovation/product submitted for the judging phase must not be significantly different from this preliminary description.

18. The entries will be reviewed for eligibility and participants of shortlisted entries will be notified.
19. Participants of **shortlisted entries** will be required to produce a **final report** that provides a detailed description of the innovation/product. Further instructions will be provided accordingly.
20. The innovation/product must be **original** and **has not been published, submitted to other international competitions** or copied from other sources. Many past entries have been disqualified as a result of having been entered into other competitions and the participants are hereby informed of this.
21. **In light of the current pandemic situation, the competition format for ALL ASEAN Categories** for CIPTA 2023 will be **conducted online** and participants

are **not required to be physically present** during the **judging day**.

22. **Following to the above issue and subject to travel restrictions**, it is the **responsibility of the individuals who plan** to come to Brunei Darussalam, to be present on receiving their award during the **award presentation ceremony**.
23. For the Young Inventor Category, it is the **responsibility of the school** to ensure the participants **who plan to come** to Brunei Darussalam, to be present on receiving their award during the **award presentation ceremony**, to have already completed and submitted to their affiliated school, the appropriate **indemnity** and **parents' consent** forms before coming to Brunei.
24. It is the **responsibility of the participants** and those accompanying them (teachers, parents, partners, etc.) to have purchased the necessary **travel insurance** for their travel to Brunei.
25. It is the **participants' responsibility** to obtain the

necessary **visa** to travel to Brunei Darussalam. For more information, please refer to <http://www.mfa.gov.bn/SitePages/Visa%20Information.aspx>

26. Participants are also **responsible** for any **taxes, handling fees, customs clearance charges**, and so forth, required by their country and Brunei Darussalam for bringing their innovations/products into and out of Brunei Darussalam respectively. For more information, please refer to <https://www.mofe.gov.bn/Customs/Import-and-Export-Procedures.aspx> and similar pages on that site.
27. **UTB will sponsor one return airline ticket** and provide **accommodation** for **one person from the winner of each ASEAN category** to attend the **final award ceremony** in Brunei Darussalam.
28. **All decisions of UTB (including those of the shortlisting and judging panels) are final, and no correspondence will be entered into.**

### 6.3.2 Assessment and Criteria

Suitable judges for the assessment and evaluation of the work will be identified and appointed by the organising committee. The rules and guidelines for judging the work will also be prepared by the organising committee. The assessment of the entries will be conducted in two stages:

#### Stage 1: Preliminary Assessment

All entries will undergo a pre-qualification assessment. Only pre-qualified entries will be allowed to proceed into the final stage of the competition.

#### Stage 2: Final Assessment

Teams and individuals of the selected projects will have to present, exhibit and to make arrangements in person to be assessed by the judges for their final assessments.

The criteria for judging the projects may include the following:

1. Novelty and Creativity.
2. Deployment of end product.
3. Relevance to the theme.
4. Social, Economic and Sustainable design considerations.
5. Report and Presentation of project.

### 6.3.3 Awards and Prizes

#### **New Invention & Innovation Category**

- 1st Prize – B\$ 6,000.00 Cash, a trophy & certificate  
2nd Prize – B\$ 4,000.00 Cash, a trophy & certificate  
3rd Prize – B\$ 2,000.00 Cash, a trophy & certificate  
Two Consolation Prizes – B\$ 500.00 Cash and certificates

#### **Young Inventor Category**

- 1st Prize – B\$ 3,000.00 Cash, a trophy & certificate

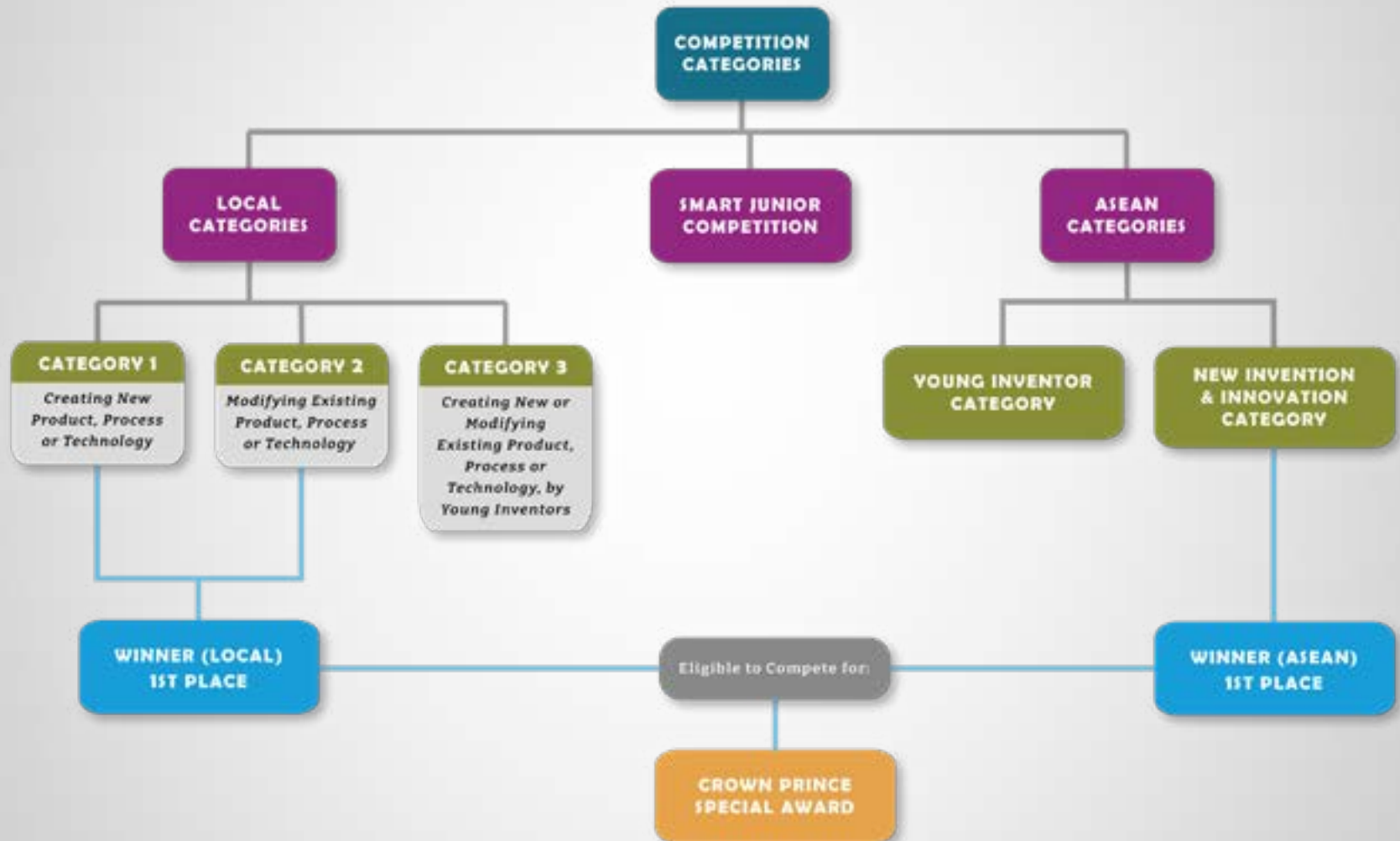
- 2nd Prize – B\$ 2,000.00 Cash, a trophy & certificate  
3rd Prize – B\$ 1,000.00 Cash, a trophy & certificate  
Two Consolation Prizes – B\$ 250.00 Cash and certificates

All participants will be issued with participation certificates.

**The winner from the ASEAN Category New Invention & Innovation will be eligible to compete with winners from the Local Categories 1 and 2 for the Crown Prince Special Award to win the grand prize of B\$ 8,000 and a Trophy.**



## 6.4 Summary of Competition Categories



## 7. Important Dates

<b>Date</b>	<b>Event</b>
19th May 2022	Launching of CIPTA 2023 competition
June 2022 – Dec 2022	Roadshow series
9th January 2023	Closing date for registration and abstract submission CIPTA 2023 Competition
March 2023	General meeting and briefing by the Technical Committee to shortlisted participants
1st May 2023	Closing date for full submission of entries reports for shortlisted participants
May/June 2023	Hardware/Poster Set-Up at UTB
May/June 2023	Final presentation and evaluation
June 2023	CIPTA 2023 Competition Awards presentation ceremony

## 8. Beyond CIPTA

Based on the Judges' recommendation, the winners of the Crown Prince CIPTA Award Competition 2023 in Category 1 and Category 2 may be offered, depending on eligibility, financial support towards filing an international application – Patent Cooperation Treaty Route (PCT) for their invention. PCT is an international treaty administered by World Intellectual Property Organization (WIPO) with the objective to simplify the filing process of applying for patent protection in several PCT member countries.

The financial support will cover the cost of filing for patent protection, which may include:

- International fee
- Transmittal fee
- Search fee
- Legal fees and Miscellaneous
- Filing fee in Brunei (optional)
- Request for certificate of grant (optional).

## 9. Post-Competition Report and Recommendations

The winning invention must meet the following conditions:

- It is a patentable invention.  
Patent only applies to an invention which can be a product or a process that gives a new technical solution to a problem.
- It must satisfy the patentable invention's conditions under the *Patents Order, 2011, Section 13 (1)*.

The followings are the non-patentable innovation:

1. Under *Patents Order, 2011, Section 13 (2)* - An invention, the publication or exploitation of which would be generally expected to encourage offensive, immoral or anti-social behaviour is not a patentable invention.
2. Other ideas that cannot be patented are:
  - Scientific or mathematical discoveries, theories or methods,
  - Literary, dramatic, musical or artistic works.

A detailed report of the competition is prepared at the completion of the competition. The report, among other matters, will highlight the weaknesses and shortcomings experienced in the course of the competition and their possible remedies for the organisation of the event in the following year.

Furthermore, any suitable project, product or process that has potential for any commercial, public use or beneficial environmental effect, identified in the competition, may be offered partnership with UTB for enhancement, development and commercialisation, or may be recommended to the relevant authorities for further sponsorship, research and development.

The post-competition report will be finalised two weeks after the competition.

## 10. The Trophy and Design Concept

The trophy has been designed and produced in UTB. The shape of the trophy represents a modest yet strong foundation of Science, Technology, Engineering and Mathematics (STEM) that forms an essential element of the nation's vision towards a sustainable economy. The shape also represents a generation with a competitive mindset with a resilient awareness of the economic challenges. Taking recourse into the creativity and innovative nature of this talent pool will enable us to fulfill the national aspirations towards economic diversification.

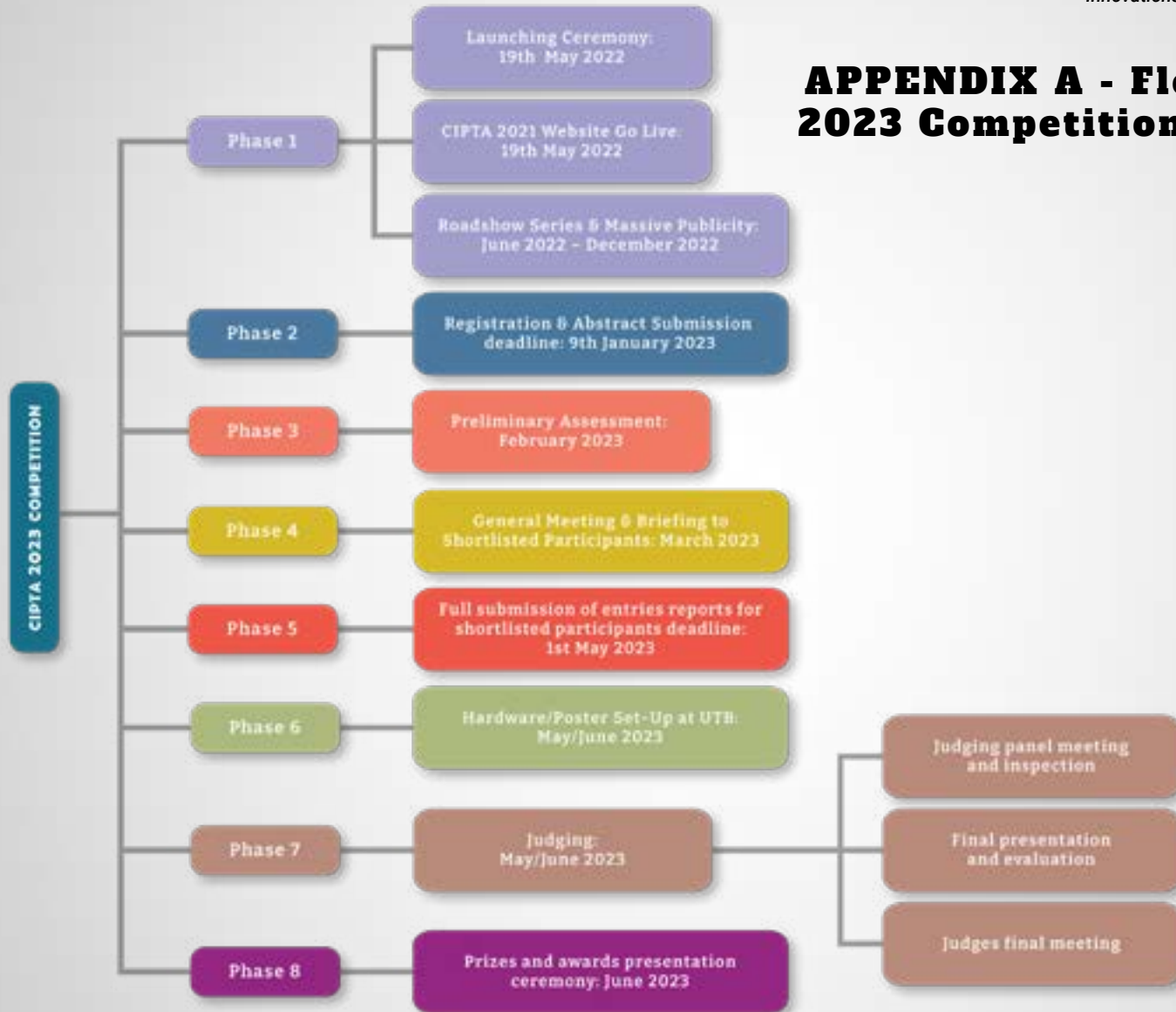


Logo at the top of the trophy symbolises the commitment of the CIPTA Award towards creating multiple avenues for innovation and invention.

The austere form of the trophy provides an inspiration towards achieving the national 'Vision 2035' and thus elevate us in the global setting.

The robust and minimalist design of the trophy - achieved using locally found materials, signifies the nation's emphasis on a creative approach that leads the nation to be regionally and globally competitive utilising its limited resources. The

## APPENDIX A - Flow of CIPTA 2023 Competition Procedures



## APPENDIX B – Past CIPTA Winners

**Category 1:** New Innovative or Creative Product, Process or Technology

Position	Name	Project Title
1st	Awg Mat Japar bin Hj Awg Karim	Portable Informer
2nd	Awg Hj Zupri bin Hj Kamis	Foldable Technician Table
3rd	Dr Md Mahmud Hassan, Mr Lim Sei Guan	PC-Based Electrocardiogram (ECG) Recorder as Internet Home Appliance
1st Consolation	Mr Edmond Anan, Awg Hujan Anak Muit	Mechanical Padi Planting Device
2nd Consolation	Mr T Puspasanan, Capt(B) Mohd Azfri bin Hj Julaihi	Multipurpose Car Spoiler and B. Protector

## CIPTA 2005 WINNERS

**Category 2:** Innovative or Creative Modification to an Existing Product, Process or Technology

Position	Name	Project Title
1st	Mr Keeran Janin	Vinyl Audio Processor
2nd	Awg Sufre bin Hj Muhamad	Electric Hardboard Cutter
3rd	Mr Aijaz Ahmad, Dyg Noor Hadijah bte Hj Abd Hadi	ITB Low Energy House
1st Consolation	Awg Hj Johari bin Timbang, Awg Hj Hasbollah bin Hj Awg Damit, Mr Arnel J Ramos	Temperature Simulator
2nd Consolation	Mr Han Chin Siew, Mr Sawapan Kumah Saha, Awg Roslan bin Suhaili	Increasing Oil and Gas Production

## CIPTA 2007 WINNERS

**Category 1:** New Innovative or Creative Product, Process or Technology

Position	Name	Project Title
1st	Chua Kok Vee @ Alan	PIC Controlled Cloth Line System
2nd	Awg Mat Japar bin Hj Awg Karim	EE Padi Harvesting Device
3rd	Ong Wee Hong, Liong Hong Hwa, Ho Chang Jie	Party Launcher
1st Consolation	Pg Omarali bin Pg Matahir, Eduardo Pilapil Urcia	Swim Stick
2nd Consolation	Jeffrey Yong Tzyy Shann, Yip Chee Siang, Melissa Lo Pei Sze	Black-Board Duster Cleaner

**Category 2:** Innovative or Creative Modification to an Existing Product, Process or Technology

Position	Name	Project Title
1st	Yee Soon Keong, M Supramaniam, Manuel Victoria	Electric Motor Controller with 3 Operational Functions
2nd	Sharizan bin Hamidon	PIC Controller Mobile Car Alarm System
3rd	Ak Abdul Azim bin Pg Said, Suardy Joffry bin Awg Jumat	BOLKOW 105 Tail Boom Support
1st Consolation	Shamsuddin bin Hj Ibrahim, Hj Junaidah Ramli	Fashion Meets Function
2nd Consolation	Hj. Mohd. Harun bin Abdullah	Compact Manual Operated Air Compressor

## CIPTA 2009 WINNERS

**Category 1:** New Innovative or Creative Product, Process or Technology

Position	Name	Project Title			
1st	Pengiran Dr Mohd Iskandar bin Pengiran Haji Petra, Associate Professor Francis M.J Nickols, Awang Mirhassan bin Haji Matussin	Autonomous 6-Legged Robot Education Kit	1st Consolation	Awang Galen Singh Sekhon, Awang Alex Yip Chee Siang, Awang Jeffrey Yong Tzyy Shann	SIMCOM for Wellhead Hydraulic Control Operation
2nd	Dr Abu Rayhan Muniruzzaman, Awang Muhammad Khairy Missalnizam bin Haji Kamis, Dayang Noor Kamaliah bte Haji Kamis	Design of a Structural Testing Frame	2nd Consolation (Tie)	Awang Ong Wee Hong, Awang Mohammad Ismail Syed Mohammad Buhari, Awang Kenneth Chin Chiang Yu	S-BOT
3rd	Awang Ahmadiyah bin Haji Suhaili, Awang Ton Kennedy, Awang Rolando B. Veando	Smart Tool	2nd Consolation (Tie)	Awang T. Puspasanan, Awang Haji Abdul Aziz bin Haji Bungsu	Spare tyre for Motorcycle/ Bikes



**Category 2:** Innovative or Creative Modification to an Existing Product, Process or Technology

Position	Name	Project Title
1st	Awang Haji Jaafar bin Awang Besar, Awang Azmi bin Haji Jaafar, Dayang Hajah Haslina bte Haji Jaafar	Perangkap Pintar-Pintar Tikus
2nd	Awang Mohammad Adib bin Norhalim	Tele-Safe Home Security System
3rd	Awang Jeffery Yong Tzyy Shann, Awang Yip Chee Siang, Awang Chong Lee Ting	12 Inches Portable Pneumatic Ventilator for Hazardous Area
1st Consolation	Pengiran Shamsuddin bin Pengiran Haji Tuah, Dayang Hajah Liza Jasmin binti Haji Brahim	Energy Conservation of Road Lighting in Negara Brunei Darussalam through the Use of Energy Saving Road Lighting Controller
2nd Consolation	Awang Mohammad Adi Iskandar bin Haji Abu Bakar	3D RPG Action Horrorr Game

## CIPTA 2011 WINNERS

**Category 1:** New Innovative or Creative Product, Process or Technology

Position	Name	Project Title
1st	No winner	-
2nd	Syed Bilal Hassan, Hj Md Adi Mukmin Hj Sarbini, Saifulbahri Hj Md Ja'afar	Electronic Vision Assistance (Eva) For The Visually Impaired
3rd (Tie)	Haji Mohd Faizal Haji Wahab	Gzup Crunchy Coal
	Haji Zupri Haji Kamis	Gzup B-Rust Remover For Automotive Cooling System
Consolation Prize	A/P Dr Chandratila De Silva Liyanage, Pg Dr Iskandar Petra, Wong Teck Sion	Self Configurable Intelligent Eco House

**Category 2:** Innovative or Creative Modification to an Existing Product, Process or Technology

Position	Name	Project Title
1st	Haji Zupri Haji Kamis, Hj Mohammad Nazmie Bin Haji Mohammad Daud	Gzup Bottling Systems
2nd	Haji Ja'afar bin Awg Besar, Azmi bin Haji Ja'afar	Cendol And Coconut Milk Machine (2c2m)
3rd	Awg Amali Bin Abdul Rahman	Smart Home
1st Consolation	Hj Md Adi Mukmin Hj Sarbini, Syed Bilal Hasan, Saifulbahri Hj Md Ja'afar	Low-Cost Interactive Whiteboard
2nd Consolation	Lim Ren Foo, Haji Isyrah Fahmi Bin Haji Osman	Geo Logger

**Category 3:** Creating New or Modifying Existing Product, Process or Technology by Young Inventors

Position	Name	Project Title
1st	Amanina @ Nurfatin binti Haji Bakar	Solar Water Heater
2nd	Adzrimi bin Amin, Mohd Kamil Hakimin bin Mohd Amin	The Multi- Functional Study Table
3rd	Michael Erlangga Vekananda, Nur Atikah binti Hj Omar, Ronald Allan Ramos Wong	Quick Track
1st Consolation	Nurwahdina binti Haji Tahir, Noraqidah binti Zalani	Multi-Purpose Table For Sick Patient
2nd Consolation	Hani Farhanah binti Hj Abu Bakar	Portable Study Lamp
3rd Consolation	Awg Daniel bin Abdullah, Muhammad Hafizuddin bin Haji Rosli, Abdul Qaiyum bin Shahminan	SMB Whiteboard Wiper

## CIPTA 2013 WINNERS

**Category 1:** Creating New Innovative or Creative Product, Process or Technology

Position	Name	Project Title
1st	Fatima Shad Kaneez, Dr.Hjh Fazean Irdayati binti Hj Idris	Stroke Meter
2nd	Hj Suhardi bin Hj Suhaimi, Hjh Rohana binti Hj Md Taha	Melayu Islam Beraja - Year 1
3rd	Saifulbahri bin Hj Md Ja'afar, Syed Bilal Hassan, Hj Mohammad Adi Mukmin bin Hj Sarbini	Electronic Solat Assistant (ESA)
1st Consolation	PW2(B) Matassim bin Hj Sarudin	The Back Plate Firing Pin L9mm Browning Remover Tool
2nd Consolation	Joel Canoza Espiritu, Mohamad Fakhri bin Jumat	Mobile Projector System

**Category 2:** Modifying Existing Product, Process or Technology

Position	Name	Project Title
1st	Azmi bin Haji Ja'afar, Haji Ja'afar bin Awang Besar	Incubator with Changeable Egg Tray
2nd	Sufre bin Haji Muhamad	Smart Sensor Assisted Windshield Operation
3rd	Pg Abd Raub bin Pg Hj Ghani	Motor-Light Jacket
Consolation Prize	Hj Zupri bin Hj Kamis, Aidee Suherman bin Hj Suhaili	GZup Paper Coding

**Category 3:** Creating New or Modifying Existing Product, Process or Technology by Young Inventors

<b>Position</b>	<b>Name</b>	<b>Project Title</b>	<b>School</b>
1st	Mohammad Aminuddin bin Ariffin	Multifunction Study Table	Pusat Tingkatan Enam Katok
2nd	Awg Muhammad Asnol Ariffin bin Awg Hj Mustapa, Mohammad Khairi Waddien bin Hj Zainal Abidin	Jetty Bridge and Walkway Lamp	Pusat Tingkatan Enam Katok
3rd	Mohammad Khairol Mateen bin Hj Hashim	Study Table	Pusat Tingkatan Enam Katok
Consolation Prize	Lennard Chen, Martin Lim Zhi Han, Kelvin Foong Kong Wang	Modern Bench	Pusat Tingkatan Enam Katok

# CIPTA 2015 WINNERS

## Crown Prince Special Award

Position	Name	Project Title	School
Overall Winner	Dr Joo Eun Chung, Dr Motoichi Kurisawa, Prof Jackie Y Ying	Green Tea Nanocarriers to Fight Cancer	Institute of Bioengineering and Nanotechnology Singapore

## Local Categories

**Category 1:** Creating New Innovative or Creative Product, Process or Technology

Position	Name	Project Title		
1st	No winner	-	3rd (Tie)	Hj Mohammad Adi Mukmin bin Hj Sarbini, Syed Bilal Hassan, Saifulbahri bin Hj Md Ja'afar SMail
2nd	No winner	-		Hj Zupri bin Hj Kamis GZUP Dual Way Steering Box System for Vehicle
			Consolation Prize	Mohammad Khairul Rizal bin Haji Awang Japar Conceptual Façade

**Category 2:** Modifying Existing Product, Process or Technology

Position	Name	Project Title
1st	Matius Anak Belayan, Nur Syamimi Qurratu'Ainee binti Mohd. Noh, Chang Wei Hau	Smart Shower 2.0
2nd	Muhamad Sahmin bin Haji Julani, Md Farid bin Haji Md Salleh	School Goes Mobile
3rd	Hj Zupri bin Hj Kamis	Kalakati Small Electric Vehicle
1st Consolation	Hj Mohammad Adi Mukmin bin Hj Sarbini, Syed Bilal Hassan, Saifulbahri bin Hj Md Ja'afar	ESA 2.0
2nd Consolation	Joel Canoza Espiritu, Mohamad Fakhri bin Jumat	i-Convertible

**Category 3:** Creating New or Modifying Existing Product, Process or Technology by Young Inventors

Position	Name	Project Title	School
1st	No winner	-	-
2nd	Chang Cheng Wen, Joshua Ryan Koh Yie, Muhammad Amir Hasan bin Effendi	Techno Headphone Station TH-01	St Andrew's School
3rd	Christopher Tug Wen Phin, Gyle Ando Peralta, Dk Umami Nurazila Azzayaty binti Pg Hassanal Ali Saifuddin	SMB Compact Active Body (CAB) Cooling Suit	Sekolah Menengah Berakas
Consolation Prize	Ak Muhammad Adib Farhan bin Pg Mohamed Tahir	Folport Chair	Anthony Abell College



## Smart Junior Competition

Position	Name	Project Title	School
1st	No winner	-	-
2nd	Muhammad Rahmat bin Roslan Muhd, Masnur Syafiq Hisyam bin Abdullah Masri, Muhammad Danial Asyraf bin Abdul Rani	Covel	Ma'had Islam Brunei
3rd	Nur Aziemahtul Faizah binti Salim, Nayli Aileen binti Salor, Nur Amiratul Ainureen binti Haji Khalidin	Astyclip	Sekolah Menengah Sufri Bolkihah
Consolation Prize	Mirza Hamizan bin Haji Julian Johari, Muhammad Amirul Iman bin Zainal Ardi, Kathleene Palines Evaristo	The Bolt Bag	Seri Mulia Sarjana

## ASEAN Categories

### ASEAN 1: New Invention & Innovation

Position	Name	Project Title	School
Winner	Dr Joo Eun Chung, Dr Motoichi Kurisawa, Prof Jackie Y Ying	Green Tea Nanocarriers to Fight Cancer	Institute of Bioengineering and Nanotechnology Singapore
Honourable Mention	How Teck Kien, Koh Boon Yew, Melissa Siaw Yiin Ling	Extraction of Vitamin E using Palm Fatty Acid Distillate	Curtin University Malaysia

### ASEAN 2: Young Inventor

No participation.

# CIPTA 2017 WINNERS

## Crown Prince Special Award

No outstanding winners.

## Local Categories

**Category 1:** Creating New Innovative or Creative Product, Process or Technology

Position	Name	Project Title		
1st	No winner	-		
2nd	No winner	-	2nd Consolation	Syed Bilal Hassan, Hj Mohammad Adi Mukmin bin Hj Sarhini, Khairuddin bin Hj Abd Ghafar Smart Phond
3rd	Hj Weston bin Sulaiman	Revolving Griller		
1st Consolation	T. Puspasanan @ Edmond Anan, Mohammad Nashruddin Hariz bin Hj Md Salleh	Cement Mortar Dispenser Machine		

**Category 2:** Modifying Existing Product, Process or Technology

Position	Name	Project Title
1st	No winner	-
2nd	Hj Muhammad Zuwaini bin Hj Aliyani, Syazana binti Mohammad Jaluddin	Geography Teachin Aid
3rd	Amanina @ Nurfatin binti Hj Bakar, Nurul Bahriah binti Haji Latip	Great Hanger
1st Consolation	Hj Ja'afar bin Awang Besar, Hj Mohd Ghazali bin Haji Ja'afar	Modern Skewer with Satay Grill
2nd Consolation	No winner	-

**Category 3: Creating New or Modifying Existing Product, Process or Technology by Young Inventors**

Position	Name	Project Title	School
1st	Dk Nurul Syasya Aqilah binti Pg Hj Omardani, Rasyidah binti Sahrani, Nurul Nur Syakirah binti Shahbudin	HIJAU SPA System (Smart Portable Aquaponics)	Pusat Tingkatan Enam, Meragang
2nd	Nurul Nabiihah binti Zulsekin, Md Waleed bin Hj Masri, Dexter Poh Tzi Siang	Vacuum on water	Sekolah Menengah Sayyidina Hasan
3rd	Ammera Fazia @ Adiva binti Sulaiman, Abdurrahman bin Hj Ahmad Yazid	Footfall Energy Harvester	Sekolah Menengah Berakas
1st Consolation	Muhammad Ya'iisy Yassin bin Sahari, Muhammad Abdul Hakim bin Mohamad Asnan	Mini Desk	Ma'had Islam Brunei
2nd Consolation	Wesley Onn Wei Rong, Yee Yeung, Muhd Wa'ieaiman bin Hj Sahrol	Hephaestus (Anti-Dust Spray)	St Andrew's School

### Smart Junior Competition

Position	Name	Project Title	School
1st	No winner	-	-
2nd	Hasya Darwish binti Johar, Ak Muhammad Nurimtiyaz Syuwar Ili Izzuddin	Quenching the Thirst - A Self Watering Vase/ Pots for Plants	Sekolah Menengah Berakas
3rd	Habib Abdul Hakim bin Habib Abdul Rashid, Albert Chong Kim Seng, Seline Phang Min Sing	Perpetual Spring Charger	Sekolah Menengah Sayyidina Hasan
1st Consolation	Candyce Liaw Chyia Chyi, Renee Li Rui En, Nurul Afiqah binti Md Norilham	Watering Can 2000	St Andrew's School
2nd Consolation	Iz'aan Syazani bin Mohammad Azren, Abdul Hakim bin Ali, Mohammad Firdaus bin Mohd Zin	Green Revolution Farming Tool	Ma'had Islam Brunei

**ASEAN Categories**

**ASEAN 1: New Invention & Innovation**

Position	Name	Project Title	School
Winner	Mohd Shiradzi Isman bin Ishak, Wan Khairul Aswandi bin Wan Mohd Ali, Syariffuldin bin Ismail	Welder Arm V1.0	Institut Latihan Perindustrian Miri Sarawak
Honourable Mention	No winner	-	-

**ASEAN 2: Young Inventor**

No participation.

## CIPTA 2019 WINNERS

### Crown Prince Special Award

No outstanding winners.

### Local Categories

**Category 1:** Creating New Innovative or Creative Product, Process or Technology

Position	Name	Project Title			
1st	No winner	-			
2nd	No winner	-	1st Consolation	Dk Zainab binti Pg Hj Tuah Mohammad, Suhimi bin Mohd Salleh, Muhammad Nurazri bin Abdul Mustafah	Ghusl Stretcher for the Deceased
3rd	Dr Hj Sharul Tazrajiman Hj Tajuddin, Nur Hamizah binti Hj Awang Harun	Water Leakage Detection and Management	2nd Consolation	Hj Weston bin Sulaiman @ Hj Justin, Mohd Ali Othman	Food Processor



**Category 2:** Modifying Existing Product, Process or Technology

Position	Name	Project Title
1st	Sufre bin Haji Muhammad	Variable Speed Multi Grits Sander Machine (VSGS)
2nd	Abdul Hafiz bin Abdul Wahab	SPOTGENIC (Plant disease detection system)
3rd	Ak Mohammad Zulfikri bin Pg Haji Zulkifly, Muhammad Amirul Fahmiin bin Abdullah, Wan Nur Zahidah binti Metussin	Vepo Device
1st Consolation	Reneiro Andal Virrey, Muhammad Mu'az bin Haji Imran, Hajah Asmah binti Haji Husaini	Diabetic Emergency Notification with MedibAInd
2nd Consolation	Norisa'azuma binti Md Norazmi, Nursalwana binti Kamidi, Norwardi bin Ariffin	Mobile Hydroponic

**Category 3: Creating New or Modifying Existing Product, Process or Technology by Young Inventors**

Position	Name	Project Title	School
1st	No winner	-	-
2nd	Dayang Janelle Joyce Ampongan Perez, Awang Muhammad Haziq Safwan bin Sheran, Dayang Nurayezha Barasi Nurul Islam	Eco BN – Waste Management Bin	Sekolah Seri Mulia Sarjana
3rd	Dayang Adriana binti Masidey, Awang Mohammad Dzy Anaqy bin Rudy, Dayang Siti Nurfatim Aleeya binti Jasmy	Blind Assist Sensory Suit (BASS)	Sekolah Menengah Berakas
1st Consolation	Awang Muhammad Abdul Halim bin Zamri, Awang Muhammad Hafizuddin bin Kifli, Awang Wong Ru Kiat	Smart Lure	Maktab Anthony Abell, Seria
2nd Consolation	Dayang Elaine Tan Eu Jie, Awang Foo Wei Loong, Awang Foo Wei Haur	Electricity, Clean water and Salt from Sea Water	Chung Ching Middle School

## Smart Junior Competition

Position	Name	Project Title	School
1st	Awang Jordan Hee Shan Yung, Awang Loo Chun Yung, Dayang Sharlaine Tan Qi Jie	My PenPal – Pen for Dyslexics	Chung Ching Middle School
2nd	Dayang Saariisha Theventharan, Awang Yong Bong You, Awang Ling Wei Ming	Bfit Shoes: Burn the fat and be fit	Chung Hua Middle School
3rd	Awang Luqman Al Hakim bin Musa, Dayang Eta Nurzafirah binti Junaidi, Dayang Nor Zaidah binti Zainal Abidin	Innovative Green Energy Collector	Sekolah Menengah Berakas
1st Consolation	Awang Clement Joshua Dev, Awang Abdul Hafiz bin Alwi, Awang Adrian bin Musa	3 in 1 Cost Efficient Farming System	Sekolah St Andrew
2nd Consolation	Awang Elijah Cheam Kai, Awang Mathew Abel Robles Filio	The FoodVisor	Sekolah Seri Mulia Sarjana

## ASEAN Categories

### ASEAN 1: New Invention & Innovation

No winner.

### ASEAN 2: Young Inventor

Position	Name	Project Title	School
Winner	Dayang Siti Nurhasya Dinie binti Abdul Mahdi, Awang Che Ku Ahmad Habib bin Che ku Ahmad Amir, Awang Adam Fitri bin Mohd Shariff Lei	Te Ractor	Sekolah Menengah Kebangsaan Tengku Lela Segara, Marang, Terengganu
Honourable Mention	No winner	-	-

# CIPTA 2021 WINNERS

## Crown Prince Special Award

No outstanding winners.

## Local Categories

**Category 1:** Creating New Innovative or Creative Product, Process or Technology

Entries moved to Category 2.

**Category 2:** Modifying Existing Product, Process or Technology

Position	Name	Project Title
1st	Roshartiney binti Hj Damit, Hj Ismit bin Hj Mohamad, Dr Wida Susanty binti Hj Suhaili	Smart Fish System - Water Quality Management System for Red Tilapia Rear in Poly Tank

2nd	Sarinah binti Ziziumiza, Nursheila binti Ziziumiza	Techsim
3rd	Siti Nur Afiqah binti Haji Abdul Samad, Dk Siti Hazimah binti Pg Sharifulazar, Muhd Shukri bin Makhbar, (S): Dr. Syazana binti Abdullah Lim	Effects of Local Plant Extracts to Preserve the Postharvest Quality and Extend Shelf Life of Figs
1st Consolation	Afiqah Nabihah @ Era Fezirah binti Ahmad	Green Fabrication of Sago Starch Microparticles via Ultra-Fine Grinder
2nd Consolation	Dr Dyg Hjh Tiawa binti Awg Hj Hamid, Dk Siti Syahirah binti Pg Idris, Muhammad Lutfi bin Hj Metussin	The Effectiveness of Tawaf Virtual Reality Training on Individual's Physiological and Exhaustion Level

**Category 3: Creating New or Modifying Existing Product, Process or Technology by Young Inventors**

Position	Name	Project Title	School
1st	No winner	-	-
2nd	Wesley Onn Wei Rong, (S): Johary bin Haji Mohammad	Project Poseidon	Pusat Tingkatan Enam Sengkurong
3rd	Muhammad Syaukani bin Haji Hasnul Fikri, Aiman Izzan bin Zakaria, (S): Pg Abdul Raub bin Pg Haji Ghani	White Cane Assistant	Sekolah Menengah Berakas
1st Consolation	Aaliyah Rose binti Ali Rahman, Ak Abdul Ghafur Ur Rahman bin Pg Abdulrahman, Hanna Maisarah binti Haji Abdul Razak, (S): Tan Wee Ying	Low Cost Fabrication of Home-Made Air Purifier	Sekolah Menengah Pengiran Jaya Negara Pengiran Haji Abu Bakar Mumong
2nd Consolation	Nurul Farahiyah Dania binti Mardianni, Dk Siti Shahidah@Dk Megasari binti Pg Noor Amlı, Farah Nur Syazana binti Mohd Azzalie, (S): Maralina binti Haji Matnoor	Midori Smart Farming System: Rice Cultivation in Urban Setting	Sekolah Menengah Berakas

## Smart Junior Competition

Position	Name	Project Title	School
1st	Abdullah bin Haji Ahmad Yazid, Muhammad Hashim Dzulkarnain bin Muhammad Redzuan Sani, Nuraqilah binti Ariffin, (S): Muhd Fauzan bin Awg Damit	Rubbish Rewards	Sekolah Menengah Berakas
2nd	Ak Md Ali Syalihin bin Pg Md Ali Redzuan, Mohammad Morsidi bin Mahadi, (S): Cikgu Pg Shamsiaton binti Pg Hj Hashim	GEN 'Z' Smart Trash Bin	Sekolah Menengah Lambak Kiri
3rd	Nur Sabrina binti Iskandar, Muhammad Faiq Haziq bin Haji Musa, Mohammad Adib bin A.Roslan, (S): Nurasilah binti Kadir Makus	School Gizmo Watch	Sekolah Menengah Rimba

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1st Consolation	Muhammad Qarl Darwishy Haqieze bin Wadi, Mohammad Alif Waliuddin bin Abdullah Mohamad Azri, Mohamamad Ashwandi Arsyad bin Bahren, (S): Haji Muhammad Zuwaini bin Haji Aliyani	Pipit Technology	Ma'had Islam Brunei, Tutong
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2nd Consolation	Muhammad Mirza Fawwaz bin Amir Hamzah, Ozi Emily Anak Claxairi, Adrian Chong Rui Sern, (S): Dyg. Shanti Thomas	i-bin: Intelligent Waste Bin for Zero- Waste Homes	Chung Ching Middle School
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## ASEAN Categories

### ASEAN 1: New Invention & Innovation

Position	Name	Project Title	School
1st	Maha Mohammad Hussein Al-Rajabi, (S): Teow Yeit Haan	Thermo-Responsive Biohydrogel for Controlled Drug Delivery	Research Centre for Sustainable Process Technology (CESPRO) Faculty of Engineering and Built Environment Universiti Kebangsaan Malaysia 43600 UKM, Bangi Selangor Darul Ehsan
2nd	Dr Lai Khin Wee, Shazia Anis, (S): Dr Juliana Binti Usman	IOT Enable Digital Scoliosis Diagnosis Device	Biomedical Engineering Department, Faculty Of Engineering, University Malaya, 50603, Kuala Lumpur, Malaysia
3rd	Goh Choon Fu, Leh Cheu Peng, Wong Li Ching, (S): Habibah Abdul Wahab	Biomass Hydrogels as a Sustainable Delivery Platform for Pharmaceutical and Cosmeceutical Application	Discipline of Pharmaceutical Technology, School of Pharmaceutical Sciences, Universiti Sains Malaysia, 11800 Minden, Penang, Malaysia

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1st Consolation	Ir. Ts. Dr. Ng Poh Kiat, Mr. Kang Chun Quan, Dr. Liew Kia Wai, (S): Assoc Professor Dr Fazly Salleh Abas	Self-Powered Multifunctional Lawnmower	Faculty of Engineering and Technology, Multimedia University, Jalan Ayer Keroh Lama, Bukit Beruang, 75450 Malacca, Malaysia
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2nd Consolation	Dr Lim Seng Joe, Prof. Dr. Salam Abdul Babji, Dr. Chang Lee Sin	Recovery of High-Value Sialic Acid from Edible Bird's Nest Processing By- Products	Department of Food Sciences, Faculty of Science and Technology, 43600 UKM Bangi, Selangor Darul Ehsan, Malaysia
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**ASEAN 2: Young Inventor**

<b>Position</b>	<b>Name</b>	<b>Project Title</b>	<b>School</b>
1st	No winner	-	-
2nd	No winner	-	-
3rd	No winner	-	-
1st Consolation	Muhamad Safwan Adli bin Ramly, Nur Syamimi Zuhayra binti Mohd Razini, Mahadi bin Anuar, (S): Salmi binti Abdullah	SoHo-TMCo	SMK Tengku Lela Segara, 21600 Marang, Terengganu, Malaysia 2472 A, Kampung Sungai Kerak, 21600 Marang, Terengganu
2nd Consolation	Syabil Fikri bin Syamsul Maizam, Muhammad Haziq Lutfi bin Rosli, Aleya Sofea binti Azman, (S): Nor Adlyizan bin Theis	Genius EcoBisen	Kolej Genius Insan (Secondary School) Universiti Sains Islam Malaysia (USIM) 71800 Nilai Negeri Sembilan

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