

**CREATIVE AND
CRITICAL THINKING
REPORT 2018**



Creative and Critical Thinking Camp 2018 Report

Compiled, Produced, Printed

Design, Layout & Editing by : ASTI R&D Department

WORKING GROUP COMMITTEE CCT 2018

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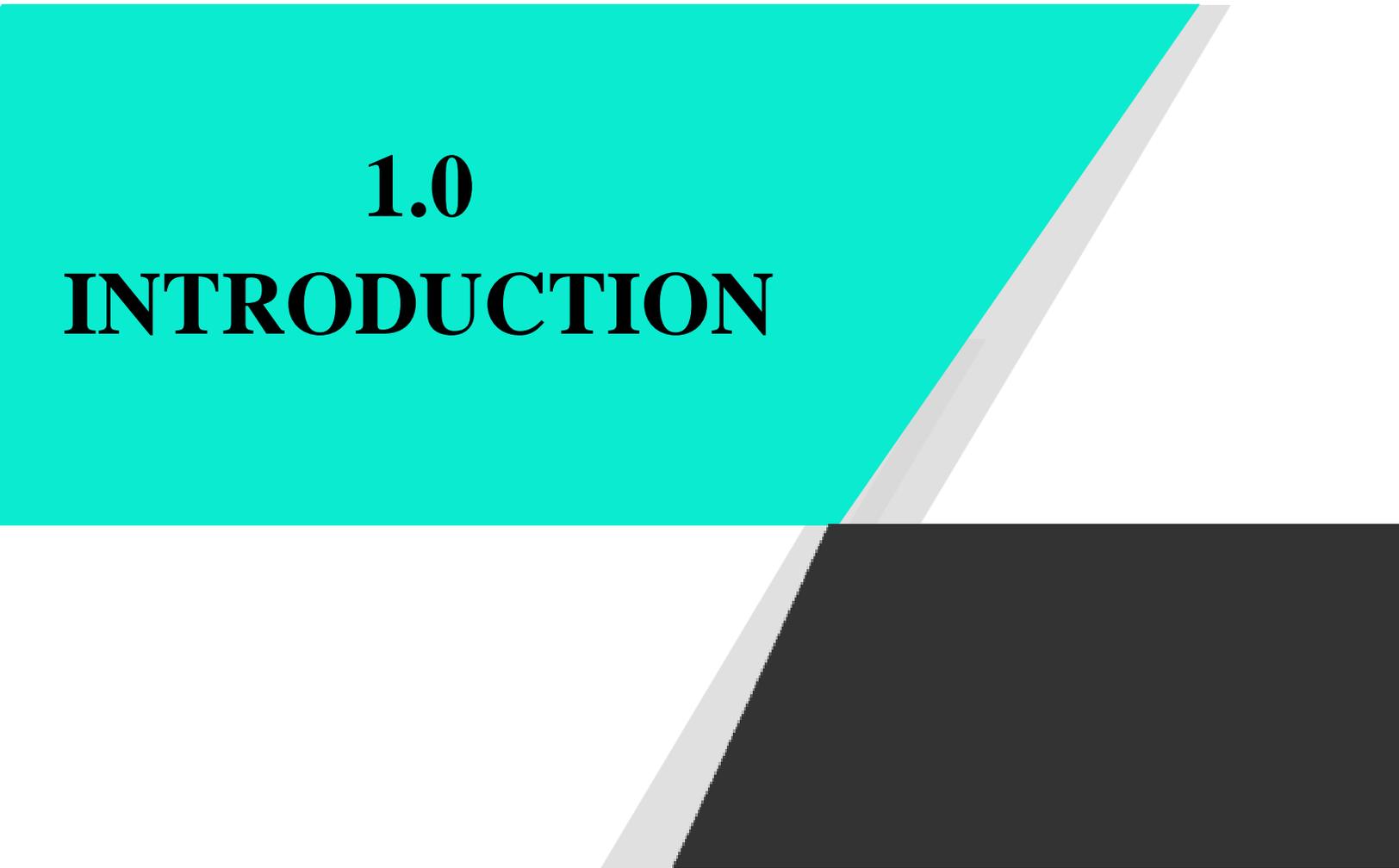
Executive Summary

Creative and Critical Thinking (CCT) Camp is a camp held by the Association of Science, Technology and Innovation since 2013. This camp is conducted for students to encourage them to think creatively and critically and also to introduce the usage of logical & empirical reasoning to solve problems, and using competitive & collaborative methods to produce an outcome when making choices. One of the aims of the camp is also to help the young realise that learning is fun and not just memorising facts.

In January 2018, Ms. Marisol M. Barnachea, Special Science Teacher III (Mathematics) from Philippine Science High School-CARC approached the Association of Science, Technology and Innovation (ASTI) to conduct their Science Immersion Program (SIP), which was to be run for 12 days. Based on the offer, ASTI decided to collaborate with a partner because the programme was to be run in July 2018, which was a peak period for ASTI.

ASTI decided to collaborate with UMCares from the University of Malaya (UM), Kuala Lumpur. The UM Tropical Camp module was customized in line with SIP aims and objectives. ASTI ran a two-day Creative and Critical Thinking (CCT) Camp for these participants at the beginning of the camp.

This report details only ASTI involvement during the first 2 out of 12 days of the SIP programme where it organised the CCT Camp. Generally it went well with a very positive feedback from the participants of the camp.



1.0

INTRODUCTION

Introduction

In recent years, young people have become more of spectators rather than participants in their individual 'learning journey'. The current education system is partly the problem due to the over emphasis on theories and "facts & figures" which they have to memorize for tests and exams which they would soon forget afterwards. The relevance of some of these lessons to their future is not contextualised which is integral to anyone understanding a subject.

True education must help students awaken and expand their creative and critical minds. It must empower the learners to take charge of their understanding of the world around them. Subjects and topics should be just tools used to nurture this new independent thinking mind. Thus, any subject, be it science or the arts, if 'delivered' properly can be enabled to create this ultimate goal.

Creative and Critical Thinking (CCT) camp/workshop was initiated with this in mind, coordinated by a team of experts who have extensive experience in the field of Science, Technology and Innovation as well Youth Engagement. This camp aims to introduce the concepts of thinking creatively and critically, using logical & empirical reasoning to solve problems and using competitive & collaborative methods to produce an outcome when making choices in any aspect of the participants' lives. These principles are conveyed to participants via indoor and outdoor lessons and fun activities in a "camp" environment.

We conducted a pre-pilot programme for 36 young students after their UPSR programme at the end of November 2013. It was an all-inclusive 3-day 2-night event. Upon its overwhelming success, we fully implemented CCT for all target groups, focusing on primary and secondary students. It has been running annually ever since.

In 2018, we have conducted a 2 day workshop participated by 13 students from Philippine Science High School-CARC due to a special request from them.

1.1 Aims & Objectives

- To empower the young to think in both creative and critical manner. It consists of presentations that emphasizes activities and a ‘hands-on’ method to help the young build this capacity in a holistic manner.
- To build effective resources, guides, and know-how to make this a recurring camp for young people across the country.
- To train the young to produce positive outcomes when making choices by using competitive and collaborative methods
- To help the young realize that learning is fun, not just memorizing facts but by deeply understanding what they learn.

1.2 Target Group

There will be 3 different levels of target groups which are

- Upper Primary School Students
- Lower and Upper Secondary School Students
- University Students.

1.3 Type of Camps

There are 2 different types of camps/workshops, which are:

- Project camp/workshop
Students have to send an application to the CCT Committee who will chose the participants. The facilities such as accommodation and food will be organised by ASTI-CCT for the participants.
- Exclusive camp/workshop
ASTI will provide the training modules, camp materials and trainers upon request by the organisers. The participants’ selection and logistic arrangements will be done by the organisers.



**2.0 CREATIVE AND CRITICAL
THINKING WORKSHOP 2018**

Camp Summary

There were 13 participants accompanied by a teacher chaperon and two parents who arrived late at at Kuala Lumpur International Airport from the Philippines due flight delays. They only arrived at 3.00am on the 9th of July 2018. Although the ASTI-CCT camp was scheduled to start on the night of the 8th of July, it was decided to start the event on the following day since the participants were tired from their long journey.

The lectures, briefing and gathering area was held mainly at the Conference room of the 10th College in University of Malaya. The first 2 days of the CCT camp was held from 9.00am and ended at 10.00pm, with lunch, tea-time and dinner breaks all included. A total of 8 modules were conducted over the two day period. A survey was conducted to gather feedback from all 13 participants of CCT at the end of each day. The surveys focused on the effectiveness of the two days camp.

All the modules chosen for this programme were designed to help introduce and develop the following skills: Socializing, evidence analysis, critical thinking, creative thinking, comparing, reasoning, strategizing, synthesizing, sensitivity, sensory integration, interpreting, concentrating, focusing, ability to follow instruction, hypothetical, thinking out of the box, brainstorming, competitive, cooperative, confidence, communicating, rhythmic, coordination and presentation.

At the end of the CCT camp, a Journal Writing Competition was organized for all the participants which was due a week after they had completed their UM Tropical Camp (30th July 2018). The winners of this competition were announced and presented with cash prizes. The winners are as per below:

Winning Places	Winners	Cash Prize (RM)
1st	Yangot, Kathlea Francynn Gawani Daytec	300.00
2nd	Macusi, Adrien Keith Orencio C.	200.00
3rd	Drake Roneale C. Panlaqui	100.00

Summary of Event Agenda

Day 1: 9th July 2018 - Monday

Time Duration	Modules
9.00 am - 12.00 pm	Session 1: Ice Breaking & Discovering Yourself
12.00 pm - 1.30 pm	Lunch break
1.30 pm - 4.00 pm	Session 2: Logical Thinking
4.00 pm - 4.30 pm	Tea Break
4.30 pm - 7.00 pm	Session 3: Critical thinking in conversation
7.00 pm - 8.00 pm	Dinner
8.00 pm - 10.00 pm	Session 4: Tinkering

Day 2: 10th July 2018 - Tuesday

Time Duration	Modules
9.00 am - 12.00 pm	Session 5: Brain exercise
12.00 pm - 1.30 pm	Lunch break
1.30 pm - 4.00 pm	Session 6: Lateral thinking
4.00 pm - 4.30 pm	Tea Break
4.30 pm - 7.00 pm	Session 7: Crime Scene Investigation - Problem solving
7.00 pm - 8.00 pm	Dinner
8.00 pm - 10.00 pm	Session 8: Creativity & Expressing Your Creativity

2.3 Trainers & Facilitators

Trainers

- Dr. Archana Buthiyappan
- Mr. Anthony Philip Fernandez
- Mr. Pratheep Sandrasaigaran

Facilitators

- Ms. Noorul Huda Binti Abdul Jabar
- Ms. Helis Halan
- Mr. Sakthivel Ganeson

2.4 Camp Evaluation

A survey was conducted to gather feedback about ASTI sessions from all 13 participants. The feedback of the survey was to evaluate the effectiveness of this two days camp especially in terms of the modules and activities conducted. The survey results were then tabulated. All the sessions and their activities were assessed by the organisers for their suitability, length and comprehension. All the questions explained from Figure 1 - 8, 10 - 13 and 15 evaluate the responses in a scale range of “excellent”, “good”, “average”, “poor” and “bad”. While Figure 14 has a scale range of “definitely”, “probably”, “probably not”, “definitely not” and “not sure”. Other questions were open ended questions. S1 - S8 in Figure 1, 2, 3, 4, 5 and 17 are referring to the eight sessions conducted throughout the 2 days event. The table below shows the modules used during each session.

Legend for S1-S8 for Figure 1, 2, 3, 4, 5 and 17

Label	Explanation	Modules
S1	Session 1	Ice Breaking & Discovering Yourself
S2	Session 2	Logical Thinking
S3	Session 3	Critical thinking in conversation
S4	Session 4	Tinkering
S5	Session 5	Brain exercise
S6	Session 6	Lateral thinking
S7	Session 7	Crime Scene Investigation - Problem solving
S8	Session 8	Creativity & Expressing Your Creativity

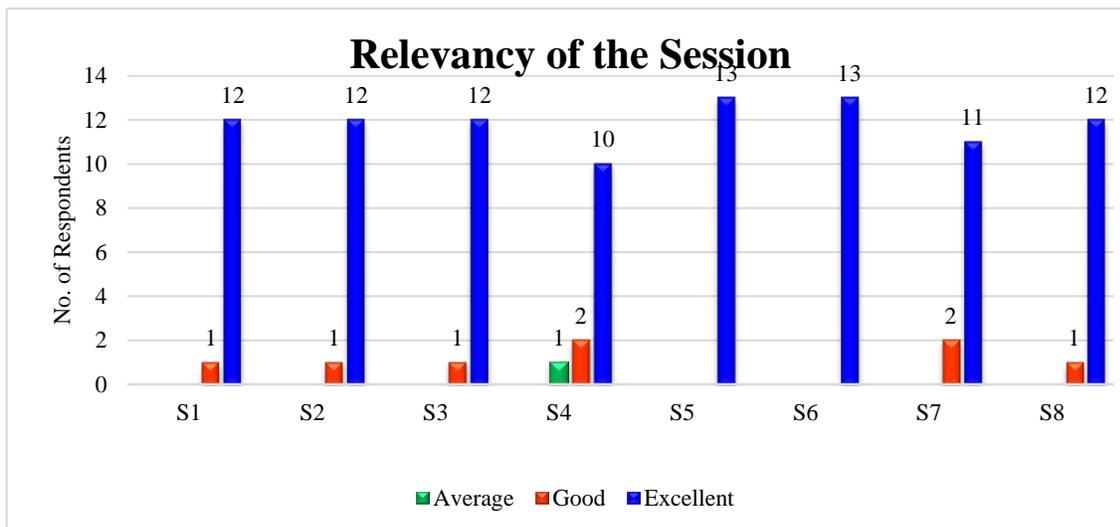


Figure 1: Relevancy of the Session

On average, the majority of the participants found all the sessions in CCT workshop relevant to them. It is suitable for this age group of participants and met the objective of Science Immersion Program.

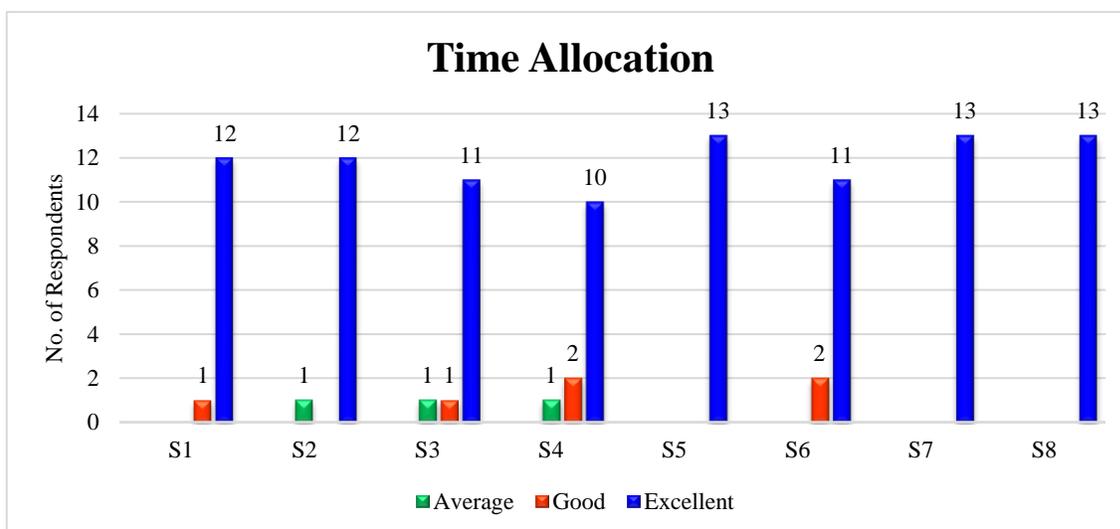


Figure 2: Time Allocation

The time allocated for most of the sessions were excellent. Due to the complexity of the activities in session 2, 3 and 4, some students found the time allocated was insufficient.

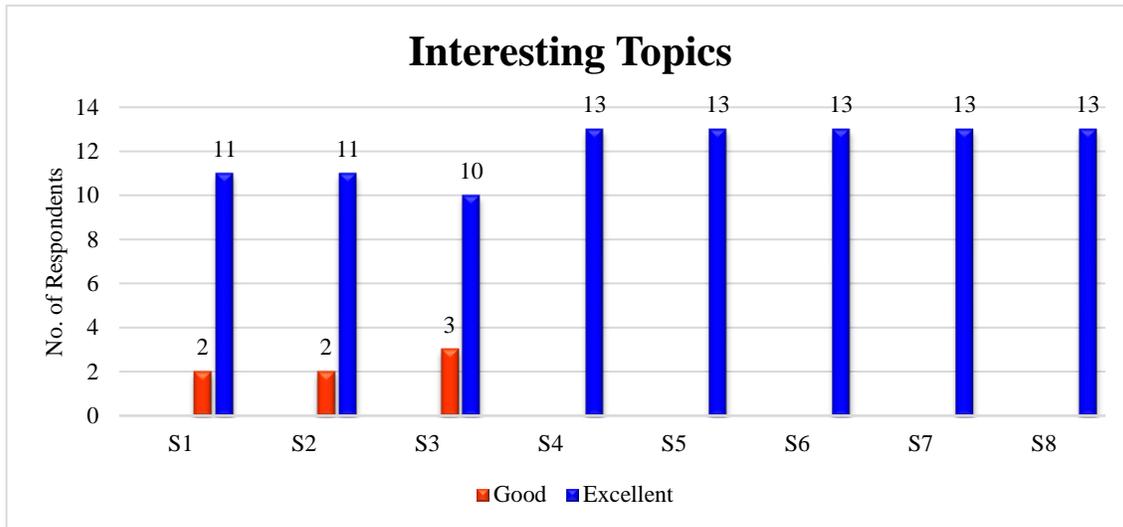


Figure 3: Interesting Topics

All the sessions were found to be interesting for all the participants. First session, *Discovering Yourself* was found to be thought-provoking where the participants were taught the importance of goals, knowing their ambitions, the need for a dream, and relationships of their goals to their friends, family, & future which made them think with varied timelines. The presenter had well explained the subject matter and inspired the participants to be successful and happy. This first session was conducted by Dr. Archina Buthiyappan. The participants were very comfortable to know that finding oneself is not a process that occur overnight, and it is acceptable to not be entirely sure of what they want for their future. It is very important to live in the moment and developing good habits in order to achieve success, as life is a journey.

General Evaluations

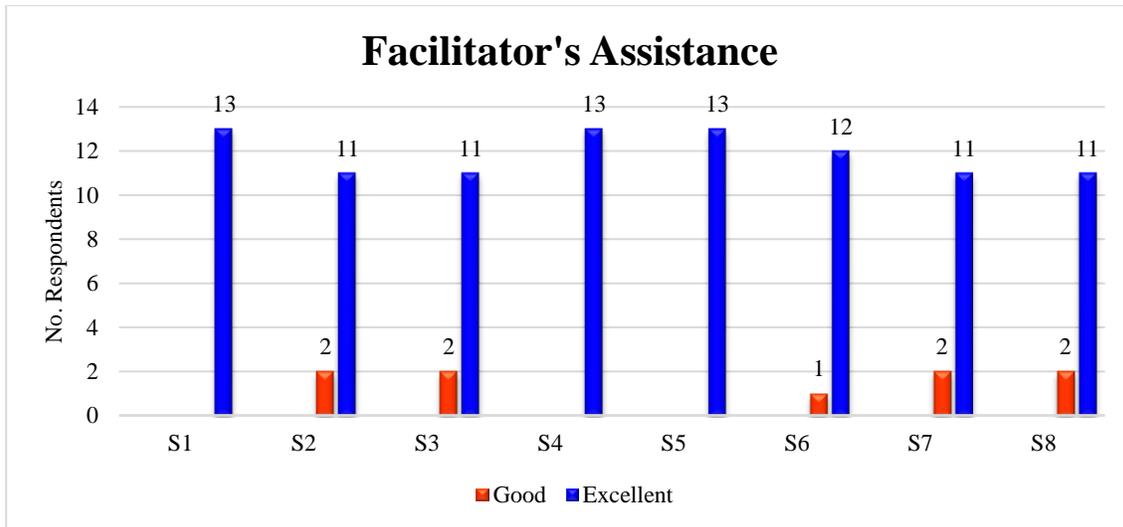


Figure 4: Facilitators' Assistance

Majority of the students rated the facilitators as very helpful. Both ASTI and UMCares facilitators helped in all the group activities for all the sessions. The assistance of the facilitators helped the participants to understand the content better and take part in activities with more eagerness and understanding.



Figure 5: Presenter's Delivery

The presenters managed to capture the participants' attention and curiosity in all the sessions as it had motivated them to participate actively from the beginning of the camp. For the first three sessions, the presenters had to be more energetic and include extra activities to keep the participants active, since they had less rest the night before due to the late arrival.

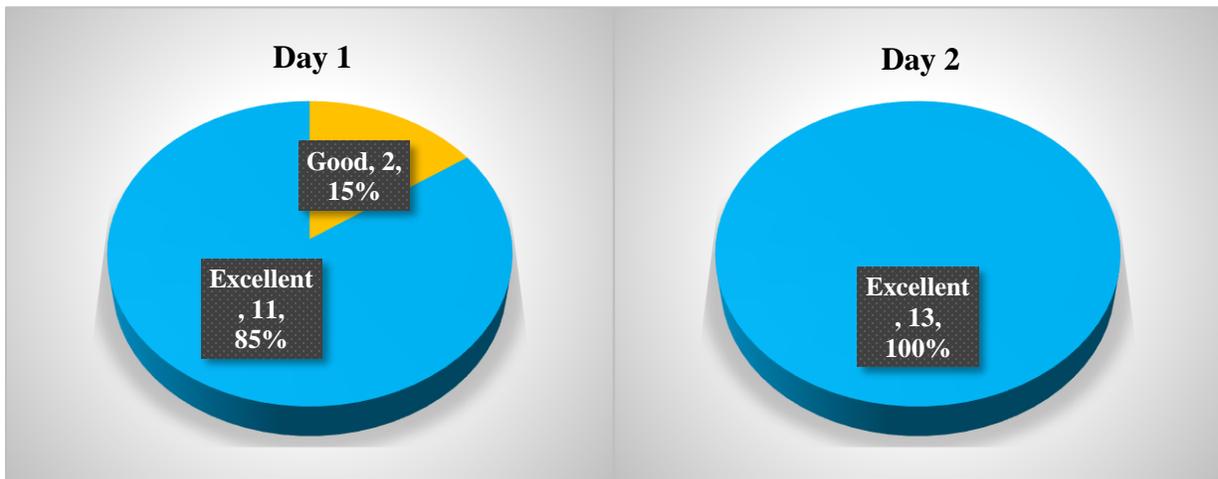


Figure 6: Rating of the Day

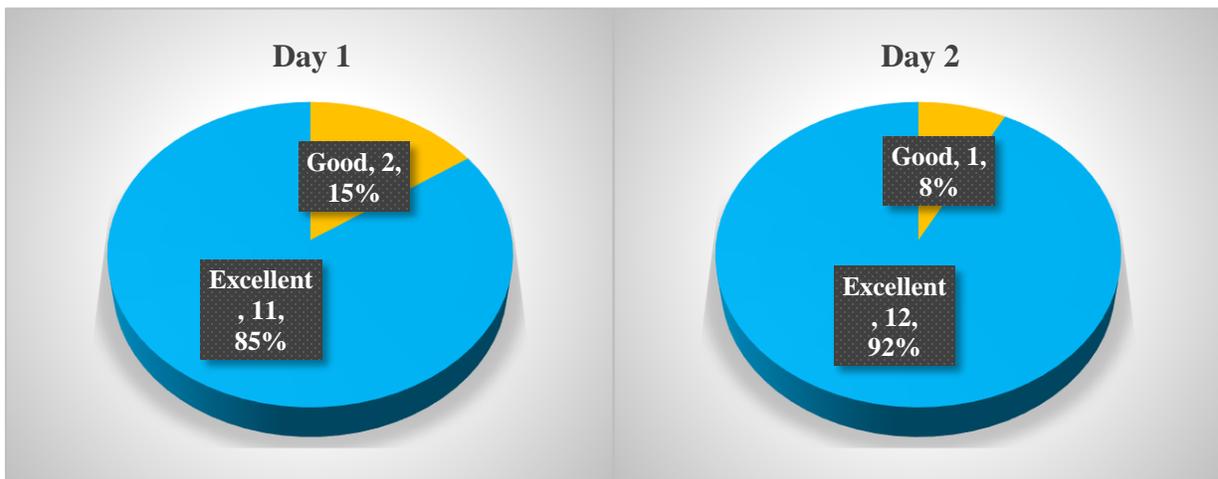


Figure 7: Excitement for the Day

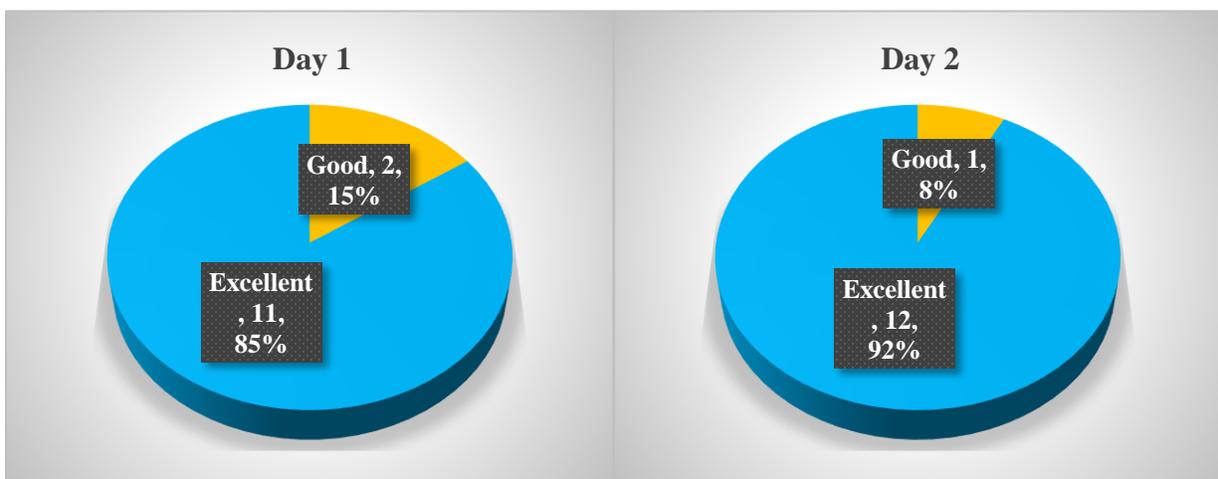


Figure 8: Rating in Questioning and Answering

Figure 6, 7 and 8 show the overall rating, excitement and rating in questioning and answering for Day 1 and Day 2 respectively. For the first day, 11 out of 13 participants rated “excellent” for all three questions. The participants were visibly very tired for the first day as they arrived very late on that day. Yet they participated actively and enjoyed all the activities as they were introduced to new ways of discovering oneself, conversing with other people and using critical thinking to achieve a solution to any situation.

All the participants found Day 2 to be more fun compared to Day 1. Perhaps part of the reason was that they were better rested. The participants managed to learn a lot of skills despite the packed CCT modules and activities. They learnt how to think differently, how to sense things, and discover their capacities to solve real-life problems.



Figure 9: One Word to Describe the Day

Figure 9 shows some of the words used by the participants to explain both Day 1 and Day 2. All those boosting words from the participants has motivated ASTI to further improve and conduct more CCT camps for teenagers both locally and internationally.

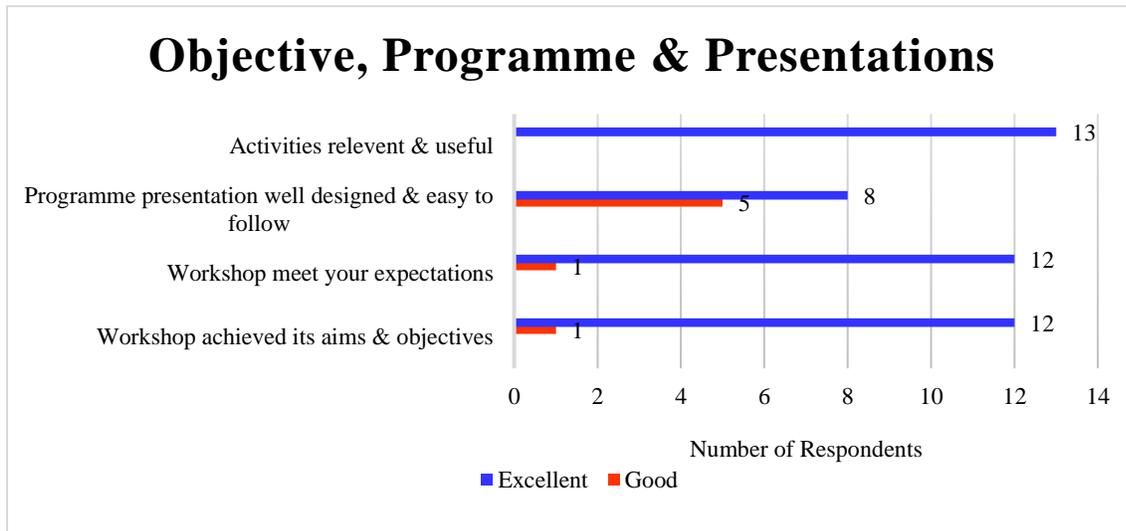


Figure 10: Objective, Programme & Presentations

All participants rated the activities being relevant and useful and 12 out of 13 participants mentioned that the programme met their expectations and it achieved its aims and objectives. Some rated “good” for the “programme presentation well designed and easy to follow” question. Maybe not all the contents were easy for them to follow, as there was a mixed group of participants for this camp. Furthermore, not all the participants may have had same level of understanding. Yet all the participants rated excellent and good only, which indicated that ASTI managed to achieve their objective through this camp. Perhaps in the future, the modules does not need to be very packed with more times for rest and relaxation. More activities can also be added to each of the modules to further enhance their understanding.



Figure 11: Opinion about Trainers

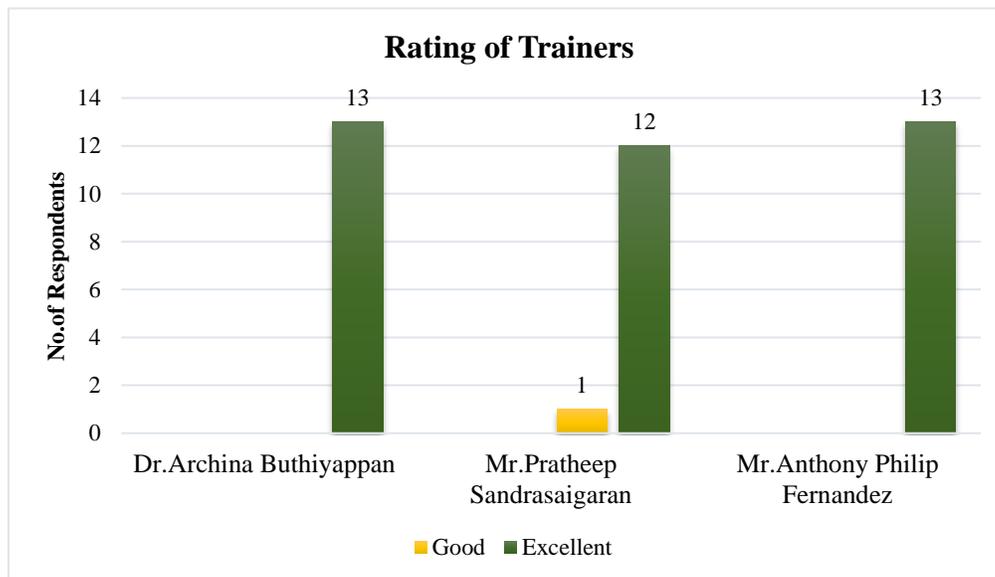


Figure 12: Rating of Trainers

Each one of the participants had complimented all three trainers throughout the 2-day CCT camp. They managed to deliver the selected CCT modules to the fullest. All trainers were very helpful and friendly. Each trainer had their own unique characters that attracted the participants to their presentation. Some of the compliments towards the trainers include “jolly”, “funny”, “beautiful”, “brilliant”, “pleasant”, and “kind hearted”.

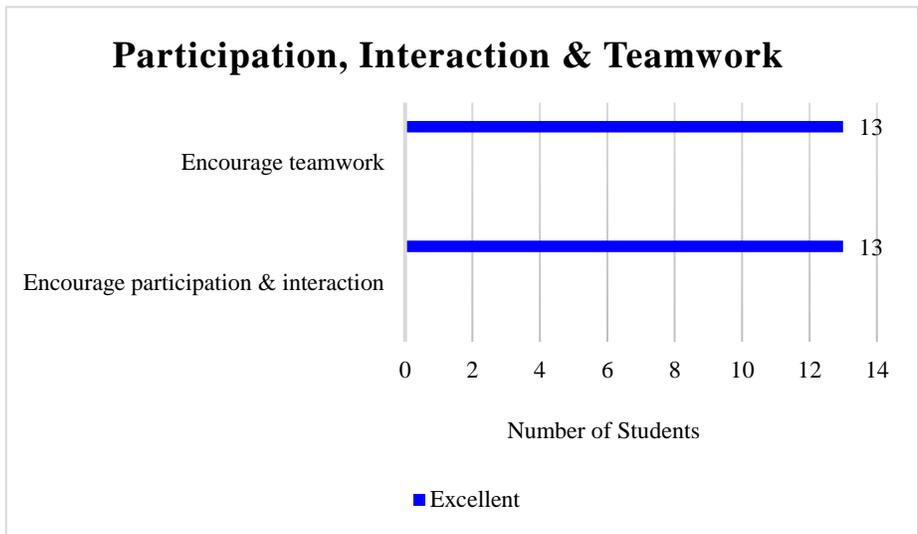


Figure 13: Participation, Interaction & Teamwork

All the participants had strongly agreed that all the activities encourage teamwork, participation and interaction. This shows that all the activities suit the objectives of Creative and Critical Thinking Camp. They comprehended and contributed better through teamwork and interaction.

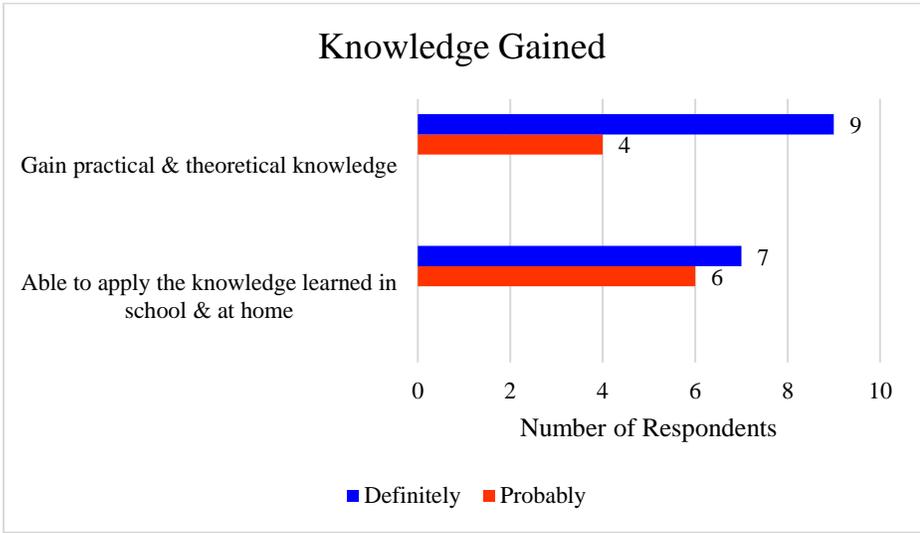


Figure 14: Knowledge Gained

Majority of the participants have definitely gained both practical and theoretical knowledge, and they definitely were able to apply the knowledge learned in school and at home. The application of learned knowledge is a main precursor of lifelong learning.

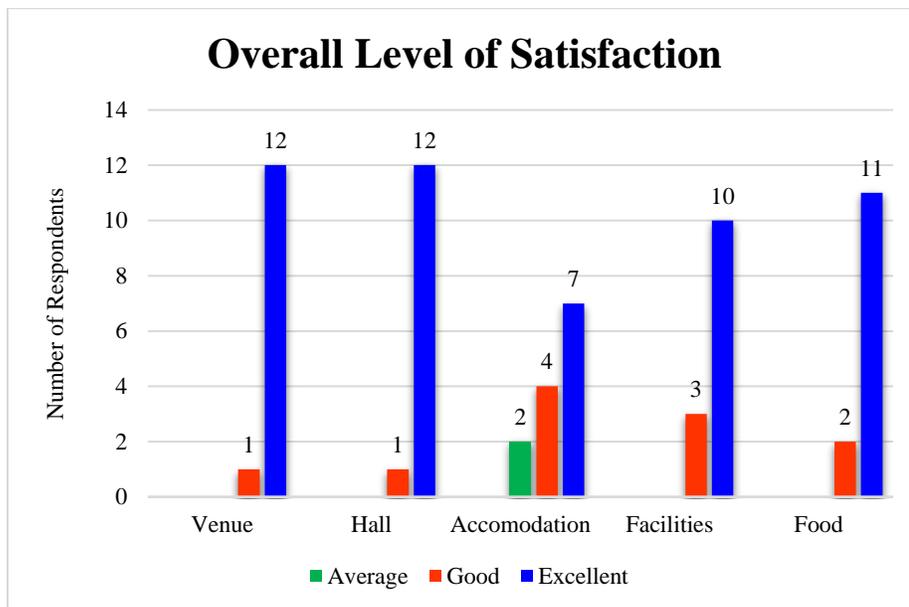


Figure 15: Overall Level of Satisfaction

All the facilities throughout this two days CCT camp was provided by UMCares. The venue and hall arranged for this group of participants were very satisfactory. The training room and accommodation were arranged at lush green location of the 10th Residential College of University of Malaya. This venue provided a soothing environment for the training. The training hall was at the Conference Room. The training room was well equipped with good facilities. Apart from flip chairs, there were also bean bags provided for the participants to lay-back and ‘chill’ during rest times. Even for some of the CCT session, the participants could sit on the bean bags for more informal and leisurely settings. The accommodation could have caused some discomfort since it is hostel accommodation with no water heater provided. All the participants really enjoyed the food prepared throughout the two days camp. But for some of them, the food was too spicy yet delicious. They were provided with 5 Malaysian meal per day. They particularly enjoyed the Malaysian favorite “*nasi lemak*” and “*teh tarik*”.

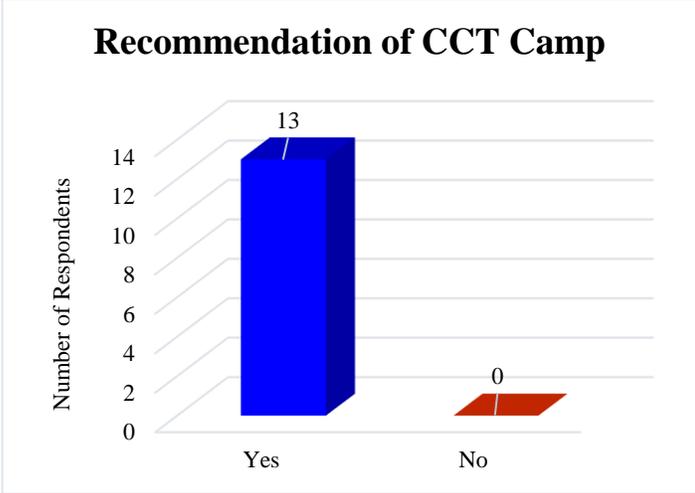


Figure 16: Recommendation of CCT Camp

All the participants overwhelmingly agreed that the CCT camp has met their expectations and were eager to participate again. They also indicated that they would recommend this camp to their friends. Thus, ASTI is looking forward to expanding this programme to wider range of participants.

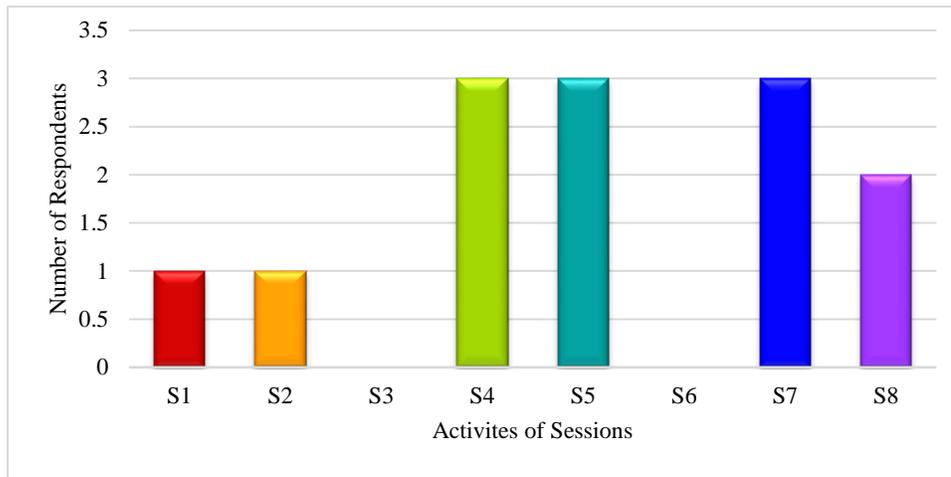


Figure 17: Favourite activities rating

Most participants selected activities from Fourth (Tinkering), Fifth (Brain Exercise) and Seventh (Crime Scene Investigation – Problem Solving) sessions as their favourite. The participants had to build a tall and most stable tower in the Forth session. The participants had done many trials to achieve the main objective of this activity, however only one group managed to build a tower that could stand on its own, using the right base shape. In Brain Exercise module, participants were trained to do unfamiliar activities to develop the less developed part of their brain. The whole idea of these activities was to utilize our brain to an optimal level. While for Crime Scene Investigation (CSI), the participants had assumed themselves as a detective to solve a case provided in this session. Furthermore, they had to narrate a possible story behind the scene that could lead to the incident.

2.5 FUNDING

PERTUBUHAN SAINS, TEKNOLOGI DAN INOVASI		
STATEMENT OF INCOME AND EXPENDITURE ACCOUNT		
FOR THE YEAR ENDED 31ST OCTOBER 2018		
	NOTES TO ACCOUNT	2018 (RM)
INCOME		7,000.00
TOTAL INCOME		
LESS: EXPENDITURE		
TRAINER ALLOWANCE		1,302.00
MATERIALS COST		80.65
SECRETARIAT UTILITIES		1,000.00
EVALUATION AND MONITORING		1,000.00
ADMIN COST		3,617.00
TOTAL EXPENDITURE		6,999.65
EXCESS OF INCOME/ (EXPENDITURE)		0.35
INCOME AND EXPENDITURE		
TOTAL INCOME		7,000.00
TOTAL EXPENDITURE		6,999.65
SURPLUS / (DEFICIT)		0.35



3.0 CCT CAMP MODULES

3.0 CCT CAMP MODULES

All modules for CCT Camps was developed and improved by the ASTI R&D Department. A brief description is as follows:

1. Session: Ice Breaking

Aim:

To help the participants feel at ease and set the tone for camp.

Areas of Skills:

Creativity, Socialising.

Before starting the first session, an Ice Breaking session was conducted, since the participants were a mix group of Ninth and Tenth Grade Level. The participants were grouped and told to create a hero they wanted to be. The participants were encouraged to discover about the values of being happy and successful through developing their own character. The participants were asked to draw a superhero to represent a character that each one of them wanted to be. The activities were design to help remove some of the anxiety within the group and of being in a new place for the first time.

2. Session: Discovering Yourself

Aim:

Learning about yourself, your goals and your interests.

Areas of Skills:

Ability to make decisions on own

Discovering Yourself was found to be thought-provoking where the participants were taught the importance of goals, knowing their ambitions, the need for a dream, relation of their goals with friends, family, and future which made them to think in an advanced timeline. The presenter had well explained the subject matter and inspired the participants to be successful and happy. This first session was conducted by Dr. Archina Buthiyappan. The participants were very comfortable to know that finding oneself is not a process that occur overnight, and it's acceptable to not be entirely sure of what they want for their future. It is very important to live in the moment and developing good habits in order to achieve success, as life is a journey.

3. **Session: Logical Thinking**

Aim:

Learn to use critical thinking to rationalise a decision.

Areas of Skills:

Ability to find solutions to problems using creativity.

The second session was on *Logical Thinking*. Mr. Pratheep Sandrasaigaran conducted this session. Concentration of mind was focused in this session through an activity of imagining oneself as a frog inside a box with closed eyes. Concentration is a must when rationalizing, and one must focus on only the important things. Logical Thinking requires the mind to think deeper of a problem in a systematic way in order to discover a solution. Activities such as “discovering the truth from lies” were conducted since logical thinking is seen as a very effective method to discover truth and is often used in the legal system.

4. **Session: Critical Thinking in Conversation**

Aim:

To build communication skills.

To train young people to be aware of their communication.

To develop communication as a tool for knowledge acquisition.

To develop communication as a means to develop projects.

Areas of Skills:

Critical Thinking, Communication skills - Listening and Responding Accordingly, Internalising Knowledge Gained.

The third session, *Critical Thinking in Conversation* was also conducted by Mr. Pratheep Sandrasaigaran. This session focusses on the roles of a speaker and listener in a conversation which establishes a basis of conversing and learning from each other. Different types of conversation were shared in group activities to apply during conversations. The students were allowed to take a nap after this session as most of them seem to be very exhausted due to delayed flight and insufficient sleep. These might also be the reason for some of the participants to give a slightly lower rating (good) for the first three sessions.

5. Session: Tinkering

Aim:

To improve analytical skills

Areas of Skills:

Creativity, Thinking out of the box

The fourth and last session for the first day, was on *Tinkering* and was handled by Mr. Anthony Fernandez. Tinkering is focused on producing a product with what is available and about trial and error. His talk inspired the participants to continuously develop their creative and critical thinking in order to make developments for the future of the Philippines and the world.

The activities were for participants to build a house using papers and a tower using straws. Participants had presented various types of houses, which were really elegant and innovative. While building the tallest tower, the participants had some problem in stabilizing the straw tower as it goes taller. The participants were always encouraged to ask “What if?”, which would always keep them thinking of alternative solutions as they undertake any activity.

6. Session: Brain Exercise

Aim:

Learn interesting facts about the human brain.

Areas of Skills:

Ability to overcome or attain new habit

On the following day, the fifth session on *Brain Exercise* was also conducted by Mr. Anthony Fernandez. He explained about the human mind and how it functions to cope with our daily life, together with some trivia about the brain. Our daily life practices will affect how our brain works. The objective of the activities in this session was to stimulate the brain in new and interesting ways. The participants were taught how a new habit can be attained or an old habit can be changed or be removed from our daily life.

7. **Session: Lateral Thinking**

Aim:

To enhance the creative and critical thinking in participants.

Areas of Skills:

Brainstorming, Creativity, Criticality, Thinking out of the box, Competition vs. Cooperation.

Sixth session, *Lateral Thinking* was continued by Mr. Anthony Fernandez who defined it through the quote, “You cannot dig a hole in a different place by digging the same hole deeper.” Lateral thinking could be synonymous to expanding views, thinking differently, and looking at every side of the coin. Lateral thinkers find solution from different perspectives in order to solve a problem. The participants were tasked to find an everyday object and think up new uses for them.

8. **Session: Problem Solving (CSI)**

Aim:

Instill critical thinking.

Areas of Skills:

Evidence Analysis, Critical thinking, Comparison, Reasoning, Strategizing.

Seventh session, *Crime Scene Investigation - Problem Solving* was conducted by Dr. Archina Buthiyappan. The students participated in the “who done it?” type, detective activity. The students were exposed to some physical “crime evidences” and were shown how to analyse those evidences to trace the suspect. All the teams managed to trace the right suspect and narrated incredibly different scene behind the crime as to exhibit both creative and critical thinking in solving a crime. All the students got highly intrigued for this session as most of them were fans of shows like “NCIS” and “Hawaii Five-O”.

9. Session: Expressing Your Creativity

Aim:

To develop their creative skills through choreography.

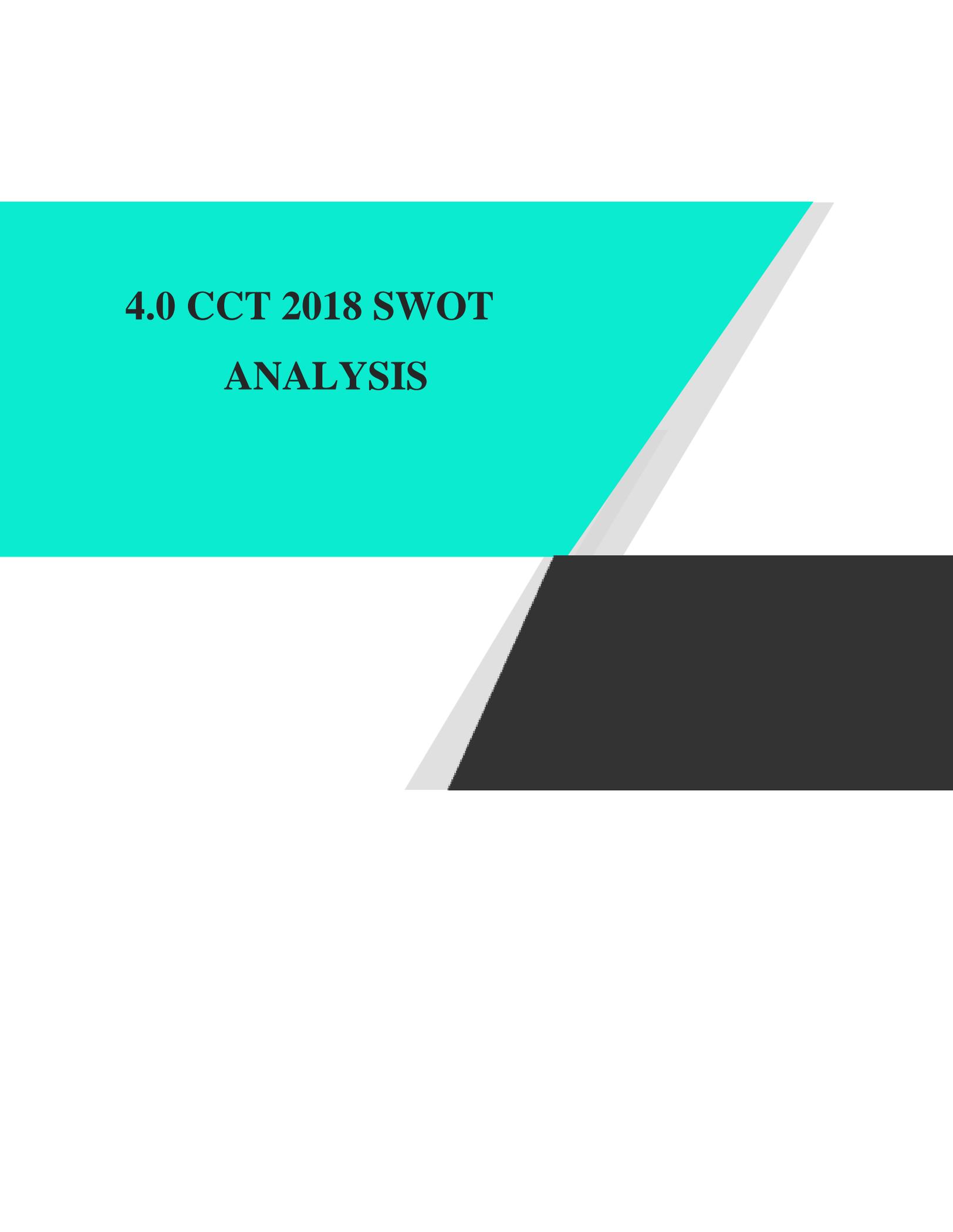
To boost confidence.

To take participants completely out of their comfort zone.

Areas of Skills:

Confidence, Communication, Cooperation, Rhythm, Coordination, Creativity, Presentation, Having Fun.

Eighth session, *Creativity & Expressing Your Creativity* was also conducted by Dr. Archina Buthiyappan. Fun conversation between human and tree was practised in this session to express their creativity in doing something not possible in the real world – i.e. completely imagined scenarios. Another activity was also conducted with the aim to develop the participants' creative skills through choreography, to boost confidence and to take the participants completely out of their comfort zone. Then the participants were divided into three and were made to dance to the *Despacito* song with some steps that was given to them. The participants proudly performed to serve as their parting gift to ASTI.



**4.0 CCT 2018 SWOT
ANALYSIS**

4.0 CCT 2018 SWOT ANALYSIS

Below is the SWOT analysis of the program both for this camp and in general terms

STRENGTH

- CCT modules were very comprehensive and help to promote teamwork; and exceptionally fun as well.
- Buddy-system which was introduced during the camp enhanced the interaction between participants and build the confidents among them.
- Facilitators provided by the organizers were very sportive and friendly.

WEAKNESS

- Lack of time for completing the module.
- Insufficient trainers.
- Did not get enough funding

OPPORTUNITY

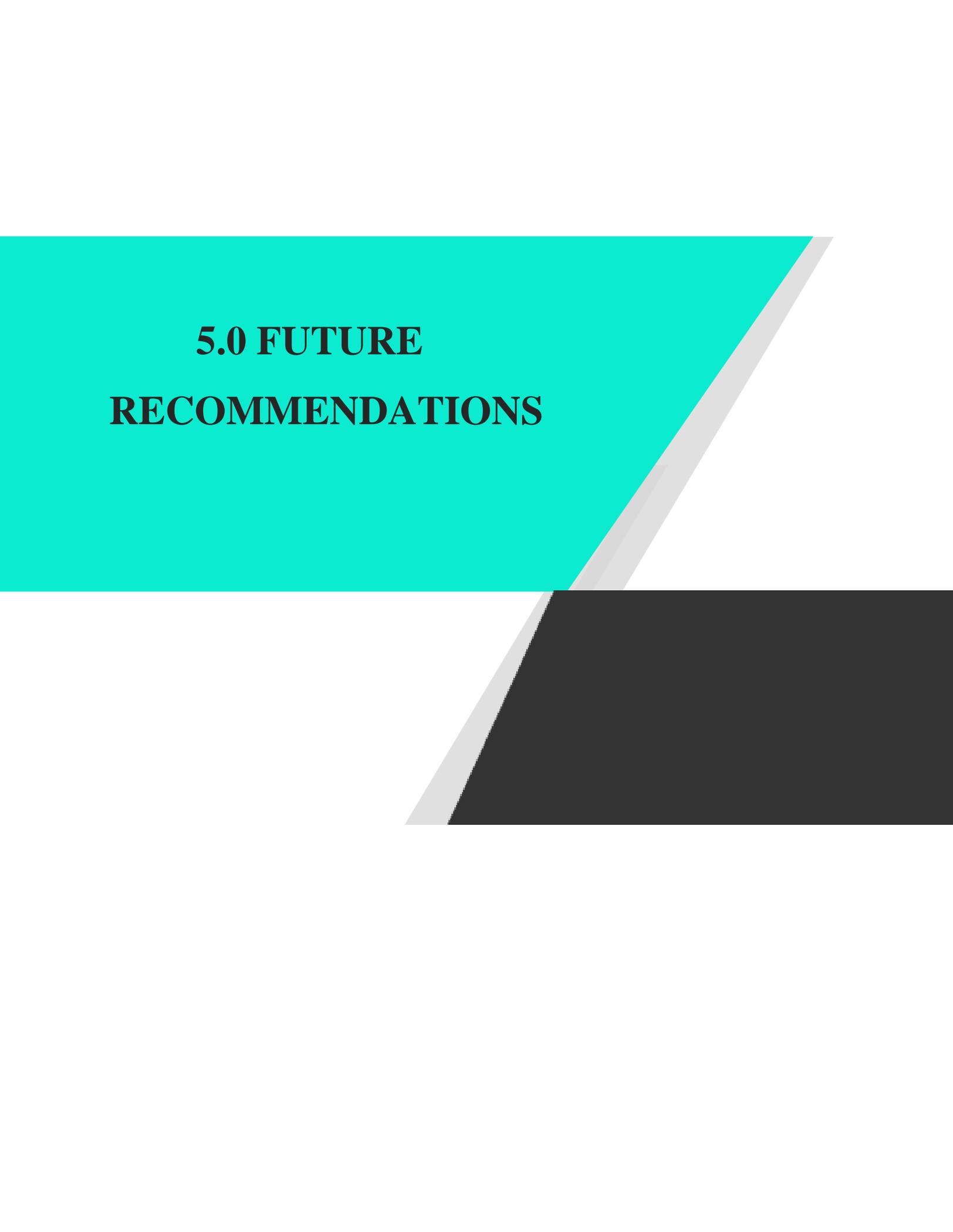
- New project with new clients can be introduced.
- New trainers and volunteers can be introduced to the team.

THREAT

- Potential last minute cancellation of camp/workshops effect the rapport between CCT/ASTI with third party, besides waste of time and money.

Below are the feedbacks from the participants on how they would describe this camp to their friends:

1. *It was a fun learning experience with brilliant speakers and engaging activities.*
2. *Very fun and useful.*
3. *Really fun. I would come back. I would tell my friends that they wouldn't regret going, it is worthwhile.*
4. *It was very fun, and it teaches me a lot and opens mind in being critical and creative.*
5. *I will go back, even though it's probably impossible. You'll really want to go here.*
6. *I would say this camp is such an amazing experience to have while we're still young and developing into perfect that can make a world a better place. We really enjoyed and have fun.*
7. *This camp provides only the best. I have learned so much and had so much fun. It is a growing experience.*
8. *Fun and full of new activities.*
9. *Fun and worth it.*
10. *It was cool and dope.*
11. *It would be a great experience.*
12. *It is something you won't expect, in a good way. Its very fun, it improves every day. You shouldn't trust it.
It's worth it.*
13. *It was very beautiful and lively journey.*



**5.0 FUTURE
RECOMMENDATIONS**

5.0 FUTURE RECOMMENDATIONS

The following recommendations are proposed for implementation for the next camp, based on the internal post mortem conducted with ASTI Secretariat and suggestions from participants for CCT workshop:

1. *If it were possible to get extra funding, the camp would be able to give out more gifts and souvenirs to the campers. This way the participants would have more incentive to further participate and return in the future.*
2. *The events and camps should be planned and conducted in the beginning of the year.*
3. *Number of participants should be confirmed at least 2 weeks before the event.*
4. *Survey should be conducted upon the competitors and current trend/issues.*
5. *Need more breaks and physical exercises. Practical activities are a good addition.*
6. *Provide more hands-on activities.*
7. *The camp could be conducted for 3 days with only 8-10 hours session a day.*
8. *Include more games in each session.*

To evaluate the participants understanding on Creative and Critical Thinking, they were asked a few open-ended questions. Below are the questions and responses (verbatim) from all the respondents.

What is Creative Thinking?

1. *It is the ability to brainstorm and imagine as many ideas as you can. It is solving a problem via imagining new ways. It involves innovating, inventing and progressive elaboration.*
2. *it is when you think outside the box and think of things in a very different way. It also involves thinking its relationship to other things.*
3. *Thinking using a wide variety of colourful fun concepts. Using your imagination to reach a decisive logical explanation to a solution. Going out of the box thinking of various reasons to answer Why? How? What? When? Etc.*
4. *Imagination in tandem with mind.*
5. *Involves thinking about new ideas and creating unique and amazing things with those ideas that would helpful the world.*
6. *It is when you try new ideas or build something from the ideas.*
7. *It is about building and creating ideas and thinking about and outside the box. It is about using your imagination and the cool word creativity to make great ideas.*
8. *Using one's imagination. It involves creating inventing something new to develop technology & become a commodity.*
9. *Creating ideas, no matters how wild or spontaneous they may be.*
10. *This involves making ideas, and thinking out of the box, and being too innovative.*
11. *It is something like brainstorming or lateral thinking, it is coming up with cool ideas.*
12. *Free flow of new ideas.*
13. *Letting your thought how as your heart desires. Thinking outside of the box. Don't stop on doing because there is no limit.*

What is Critical Thinking?

1. *It is the ability to breakdown your thinking process in a clear and logical way. It requires deep concentration and classification. Everything must be clear and rational.*
2. *It is when you think deeper into a topic.*
3. *Thinking focusing on the task at hand. Thinking of out of box ideas on how to use the everyday items that are around us.*
4. *Objective analysis and evaluation of an issue to form a judgement.*
5. *Involves analysing and examining ideas that others or yourself and thinking. It is carefully judging ideas that you think are good or bad.*
6. *It is when you examine and try to learn established ideas.*
7. *It is about examining existing ideas. All is about analysing and processing ideas to inspire and innovate ideas to have better ones.*
8. *It means dissecting, analysing and using logic. It involves innovation.*
9. *Analysing and building upon ideas that already exist.*
10. *Generally, involves building on any idea, and being analytical. It involves progressive elaboration and building on an idea.*
11. *When I think of critical thinking, I think about thinking analytically and thinking about solutions to a problem, as well as using progressive elaboration.*
12. *Precise thinking, using progressive elaboration on thinking of new innovations.*
13. *Thinking what is the next on the most proper among all ideas. Exercise making process.*



6.0 CONCLUSION

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As a conclusion, this CCT camp organized for SIP 2018 was a success, and it has again given ASTI more confidence and pathway to expand its work internationally.





