



International Teaching Aid
Competition 2023

Reconnoitering Innovative Ideas in Postnormal Times

iTAC

2023

iTAC 2023
INTERNATIONAL TEACHING AID COMPETITION
E-PROCEEDINGS

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PREFACE

iTAC or International Teaching Aid Competition 2023 was a venue for academicians, researchers, industries, junior and young inventors to showcase their innovative ideas not only in the teaching and learning sphere but also in other numerous disciplines of study. This competition was organised by the Special Interest Group, Public Interest Centre of Excellence (SIG PICE) UiTM Kedah Branch, Malaysia. Its main aim was to promote the production of innovative ideas among academicians, students and also the public at large.

In accordance with the theme "Reconnoitering Innovative Ideas in Post-normal Times", the development of novel ideas from the perspectives of interdisciplinary innovations is more compelling today, especially in the post-covid 19 times. Post-pandemic initiatives are the most relevant in the current world to adapt to new ways of doing things and all these surely require networking and collaboration. Rising to the occasion, iTAC 2023 has managed to attract more than 267 participations for all categories. The staggering number of submissions has proven the relevance of this competition to the academic world and beyond in urging the culture of innovating ideas.

iTAC 2023 committee would like to thank all creative participants for showcasing their innovative ideas with us. As expected in any competition, there will be those who win and those who lose. Congratulations to all the award recipients (Diamond, Gold, Silver and Bronze) for their winning entries. Those who did not make the cut this year can always improve and join us again later.

It is hoped that iTAC 2023 has been a worthy platform for all participating innovators who have shown ingenious efforts in their products and ideas. This compilation of extended abstracts published as iTAC 2023 E-Proceedings contains insights into what current researchers, both experienced and novice, find important and relevant in the post-normal times.

Best regards,

iTAC 2023 Committee
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AEROLINE

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ABSTRACT

Aeroline is an additional complimentary service train that will shuttle passengers between the Satellite Building in Kuala Lumpur International Airport (KLIA) and Satellite Building in Kuala Lumpur International Airport 2 (KLIA2). The estimated time between the two buildings would be around 7 to 10 minutes. Moreover, the train system would operate 24 hours together with the maintenance would be managed two times a day. The three carriages of the Aeroline are able to fit around 270 passengers and there will be no fee charges to the passengers. The Aeroline is designed to travel at speeds in excess of 100 mph. Furthermore, a problem has surfaced in the airline's transportation sector which is the increasing number of stranded passengers. Due to this problem, the objective of Aeroline is to ease the transit passenger's movement in KLIA who have to board another airplane at KLIA2. Thus, the existing shuttle train which is the Aerotrain is available within KLIA only. Therefore, we came up with the idea of another additional shuttle train which is called Aeroline. It will be beneficial for the society in reducing the number of stranded passengers in the airport, as well as to increase the efficiency of managing passengers. It also can bring more profit to the airlines that operate between the two airports,

and gives opportunity to the low fares airline which does not operate in KLIA. We are confident that this invention will be beneficial and convenient to a lot of parties.

Keywords: shuttle train, airport, travel, stranded passenger, low fares airline

PRODUCT CONCEPT

Aeroline is an additional complimentary service train that will shuttle passengers between the Satellite Building in KLIA and Satellite Building in KLIA 2. The reason we choose to do the Aeroline is because we want to ease the transit passenger who took a transit flight from KLIA2.

The service that we provide might've already been provided by another service which is Express Rail Link (ERL). However, in order to board the train, we must go to the second floor of the main terminal buildings of Klia. Therefore, it might take some time for the passenger to go to the main terminal buildings to catch the train. Plus, it will cost you some money.

As a result, we have conducted a survey and chose to implement Aeroline to make things simpler for all transit passengers.

OBJECTIVE

The objective for Aeroline is to ease the transit passengers movement from KLIA to KLIA2 and they might as well can save cost without having to pay for the transit train.

NOVELTY

Novelty is defined as the introduction of a new idea that adds to the existing knowledge. This is important in doing research because it offers a fresh perspective on unfamiliar grounds. In this case, Aeroline presents novelties in order to make a contribution to the studies. The novelty in our proposal would be the idea of having another shuttle train named Aeroline. Having another shuttle train just like the existing one, Aerotrain, will ensure that there are services available in our country's airport.

Providing new experiences to the passengers, adding more knowledge on the technology are the essence to our proposal. New experience as in the transportation within KLIA to KLIA2

will attract passengers to use Aeroline. With that, it will lead to a new service for society and it will benefit not only the passengers, but the economy as well.

CREATIVITY

There are four factors contributing to creativity of the product. First, it relates to fast and efficient products. Aeroline travels at a speed of 100 mph. Therefore, it will set the seal on how fast the train could be and it is efficient for the late passengers. The second factor is the use of advanced technology. The estimated time between the two buildings would be around 7 to 10 minutes in one way. The passengers would not have to be worried if they have another piece of business that they have to complete before catching their next flight as Aeroline will be there to ensure the timing for them. Lastly is on passenger satisfaction. Aeroline capacity could fit around 270 passengers in one time comfortably and there will be no fee charges. This will increase the fulfillment of the passengers that they do not have to be stuck between each other in the train.

USEFULNESS

Aeroline will benefit the society as it aims to help by reducing the number of stranded passengers at KLIA and KLIA2. Based on the introduction, the train takes about 7 to 10 minutes from KLIA to KLIA2, so it will be a timely ride for transit passengers that have to rush to the airport without worrying of getting stranded. Another benefit is helping to increase efficiency in managing passengers. It will be easier to differentiate, and manage between regular passengers and transit passengers, avoiding looking crowded in the airport.

OVERALL ACCEPTABILITY

Aeroline will help transit passengers to directly go to KLIA2 from KLIA. It will also avoid direct confusion among international passengers and new travelers since it may be their first time to arrive in KLIA and KLIA2.

As from the Malaysia Airports Holdings Berhad (MAHB) party, one of their employee, Mrs. Diana said MAHB should consider creating direct transportation to KLIA2 in order to avoid the commotion.

COMMERCIAL VALUE

Aeroline will help to increase profits of the airlines by giving an opportunity to low fares airline in KLIA 2 which does not operate in KLIA. The example of low fares airlines are AirAsia, Cebu Pacific, JetStar Asia, Scoot and others. The tourists may have a lot of options to choose whether they want luxurious airlines or low fares since they can easily access KLIA2 within 7 to 10 minutes only.

ECONOMIC EFFECTIVENESS

For economic effectiveness, it will increase the tourist arrival as the aeroline has been provided. Next, consumers or tourists have nothing to worry about since they can go to KLIA2 easily. Lastly, it will increase tourist satisfaction towards the airline in Malaysia. plus the tourist can fly peacefully knowing that there is transport provided from KLIA to KLIA2.

REFERENCE

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