

**FINAL PROJECT (Group)**

UHMT1012 GRADUATE SUCCESS ATTRIBUTES

SEMESTER I, SESSION 2019/2020

**Title: Proposal of the Project to motivate orang asli’s children to continue their education**

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Section: 27

PROGRAMME: BACHELOR OF COMPUTER SCIENCE (SOFTWARE ENGINEERING

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# **1.0 Introduction**

Orang Asli is the local Malay name given to the native or indigenous people in Malaysia. The term Orang Asli directly translates to *‘Original* People’, which is fitting as they are the oldest inhabitants of the Malay Peninsula. Some of these indigenous tribes have been living in the Malay Archipelago for over 4500 years.

Officially there are 18 Orang Asli tribes in Malaysia, namely *Bateq, Jahai, Kensiu, Kintaq, Lanoh, Mendriq, Cheq Wong, Jah Hut, Mah Meri, Semai, Semaq Beri, Temiar, Jakun, Orang Kanaq, Orang Kuala, Orang Seletar, Semelai and Temuan.* These 18 tribes can be categorized under three main groups which are the *Semang/Negrito, Senoi and Proto-Malay.* They are categorized by their location, the *Semanng* are mainly found in the north of the peninsula, the *SenoiI* are found in the central region and the *Proto-Malays* are found in the southern region. These 18 Orang Asli tribes are the ones only found in Peninsula Malaysia, there are many more indigenous tribes found in Sabah and Sarawak.

The Orang Asli mainly kept to themselves until the first foreign traders arrived in the first millennium CE. Since many of these aboriginals lived inland, they bartered forest products such as resins and incense woods for cloth, iron tools and salt. With the arrival of these foreign traders so came new religions which the natives would embrace. Originally many of these natives practiced Animism or did not have any religion at all, but halfway through the first millennium CE, they started to embrace other religions such as Hinduism, Buddhism, Islam and Christianity. With that being said, there are still many indigenous tribes who practice Animism or have no concept of religion.

It is estimated that the Orang Asli make up about 0.5% of the population of Malaysia, around 150,000 people. While the Orang Asli has the smallest population demographic in Malaysia, they have the highest poverty rate among any other demographic in the country. The Statistics Department of Malaysia say that the poverty rate of the Orang Asli is around 77%, with over a third of the entire Orang Asli population being ‘very poor’. They also have one of the lowest life expectancies as well as a high infant mortality rate. The Orang Asli have the lowest literacy rate in Malaysia, with only 43% being able to read and write. This is believed to be one of the main reasons why a majority of the Orang Asli in Malaysia live in poverty.

Over the years, the Orang Asli have fallen behind the other Malaysians and the government is making an effort to bring them up to a similar standing as the average Malaysian. The main focus of which is relocation to more accessible areas and education which has the potential to allow the Orang Asli to thrive in this ever changing world.

# **2.0 Background**

# **3.0 Iteration**

## 3.1 Module 1: Portable School-Introduction of School System

**Module Overview:**

In this 2-days module, we are mainly focus on orang asli’s children to build their awareness of the school system and get them interested in learning, by bringing the school to the village of orang asli and vivid teaching methods.

Activity 1 (Day1): Building Straw Tower

Time: 30 mins

Target person: Children of orang asli

Each group of 5-6 team members will be given the following materials:

* 50 plastic straws per group
* 2 m of 1-inch wide masking tape per group.

Divide them into equal groups of 5-6. Give each group a set of 50 straws, and a roll of masking tape. When you give the signal, each group must try to build a free-standing structure out of straws and tape. Listen to how they share ideas and watch for both frustration and enthusiasm and how it is communicated. At the end of the activity have the group debrief what the experience was like, both the challenges and the successes. They can make the criteria for the build to be the most creative tower, the tallest tower, or the tower built in the fastest time frame (first one finished). Add a rule that prohibits verbal communication.

Activity 2: Egg Drop

Time: 90 mins (1.5 hrs)

Target person: Children of orang asli

Each group of 5-6 team members will be given the following materials:

Toothpicks, String, Paperclips, Straws, Cotton Balls, Pipe Cleaners, Rubber Bands, Paper, Cotton, Newspaper, Balloons, Plastic Sheet

Students will work in groups of 3 or 4 to design and build an egg drop device. The students will be given a budget and defined list of materials that they can ‘purchase’ to protect their egg.

**Module Objectives:**

Activity 1(Day1): Building Straw Tower

This activity is great to demonstrate teamwork, problem solving, critical thinking, creativity, cooperation, etc. It can be used as a springboard activity to begin class, or as an illustration to connect class content at the end of class. It can also be used as an icebreaker at the beginning of the semester to introduce students to each other.

Activity 2: Egg Drop

Egg drop projects help students explore basic concepts such as gravity, force and acceleration. In an egg drop project, the specific details and rules may vary. The general idea is to have students design a container that will allow an egg to safely fall from varying heights without breaking. Often, one of the goals is to try and use the least amount of material as possible. Egg drop projects combine problem solving skills with basic principles of engineering and physics.

Table 3.1: Schedule for Module 1

|  |  |  |  |
| --- | --- | --- | --- |
| Day | Time | Activities | Remarks |
| 1 | 9:00-9:30 | Arrive at the Orang Asli Settlement | We will need two cars as there are 7 group members. |
| 1 | 9:30-10:30 | Tour the settlement and meet the Orang Asli who live there. |  |
| 1 | 10:30-11:00 | Meet the Orang Asli children involved in the program and divide them into groups |  |
| 1 | 11:00-1:00 | Our first activity will be the Straw Tower. There will be a brief explanation before the activity commences. | Plastic straws and tape are required.  A sheltered/ closed space would be good for this activity. |
| 1 | 1:00-2:30 | Break for lunch and prayers. | Food will be provided by the team. |
| 1 | 2:30-5:00 | Several science demonstrations will be conducted with explanations.  Briefing will be given for the next activity which will take place on the following day. | Toothpicks, String, Paperclips, Straws, Cotton Balls, Pipe Cleaners, Rubber Bands, Paper, Cotton, Newspaper, Balloons, Plastic Sheet are all required. |
| 1 | 5:00 | Break for Day 1 | All group members will travel back to their accommodation. |
| 2 | 9:00-9:30 | Arrive at Orang Asli Settlement and quick breakfast. | Food must be bought by the team. |
| 2 | 9:30-12:30 | Briefing for the Egg Drop competition and time for the Orang Asli children to prepare for the competition. | Paperclips, Straws, Cotton Balls, Pipe Cleaners, Rubber Bands, Paper, Cotton, Newspaper, Balloons, Plastic Sheet are all required. |
| 2 | 12:30-2:00 | Break for lunch and prayer | Food will be provided by the team. |
| 2 | 2:00-4:00 | Egg Drop competition. | The team will judge them based on several predetermined criterias. |
| 2 | 4:00-5:00 | Prize giving and debriefing of activities. | Prizes will be provided by the group. |
| 2 | 5:00 | End of module 1 |  |

# **4.0 Budgeting**

Table 4.1: Budget for Module 1

|  |  |  |
| --- | --- | --- |
| Activity | Material | Price |
| Straw Tower | * 50 plastic straws per group * 2 m of 1-inch wide masking tape per group. | Rm 20 |
| Lunch | * Food | Rm 5 per person |
| Science Demonstration | * Paperclips, Straws, Cotton Balls, Pipe Cleaners, Rubber Bands, Paper, Cotton, Newspaper, Balloons, Plastic Sheet | Rm 10 |
| Breakfast | * Food | Rm 5 per person |
| Egg Drop Competition | * Paperclips, Straws, Cotton Balls, Pipe Cleaners, Rubber Bands, Paper, Cotton, Newspaper, Balloons, Plastic Sheet | Rm 50 |
| Lunch | * Food | Rm 5 per person |
| Prize giving | * Prizes | Rm 50 |
| Other costs | * Transport * Accommodation | Rm 350 (Rm 50 per group member) |

# **5.0 Conclusion**

# **6.0 Appendix**