

Project Ninja Interim Report

June 16th, 2021



Background



January 2020 – June 2021

RM 141,300.00



UMP STEM LAB
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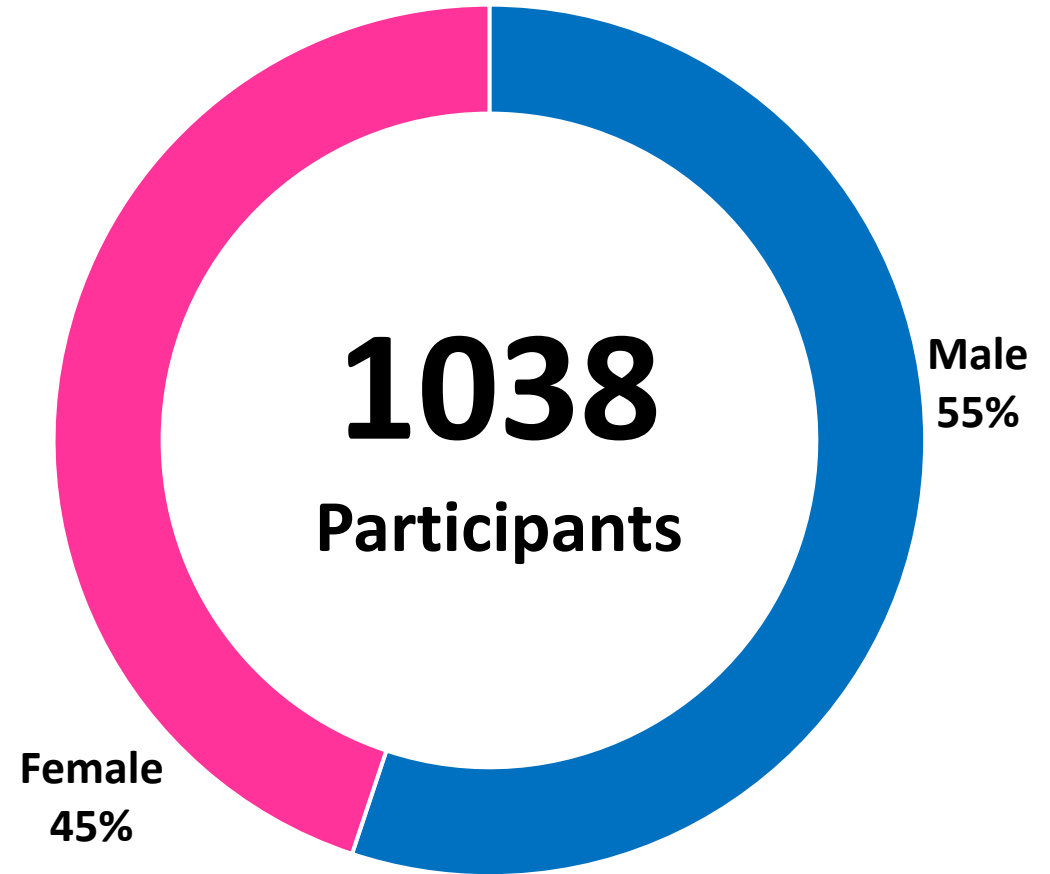


Summary of Engagement



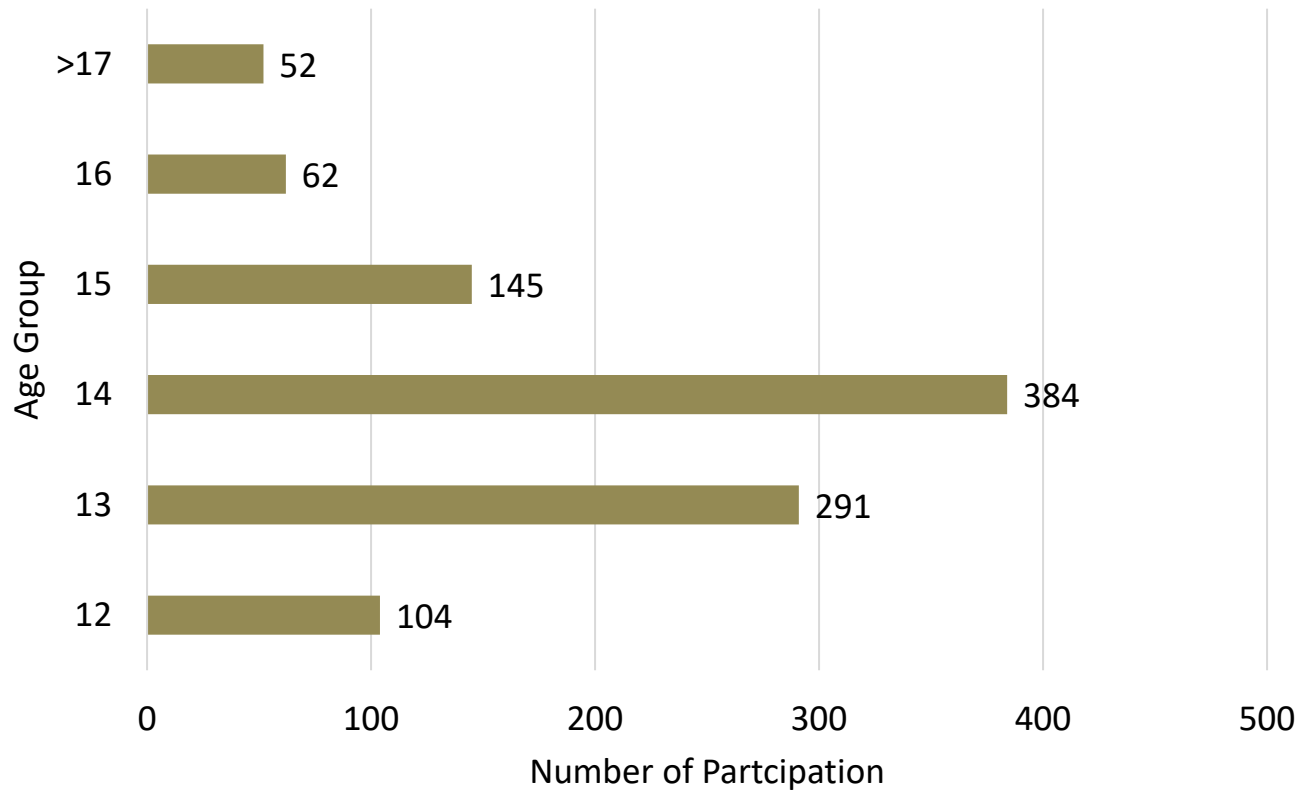
Year	Participations
2020	419
2021	619
Total	1038

* 245 before
MCO 1.0



Summary of Engagement

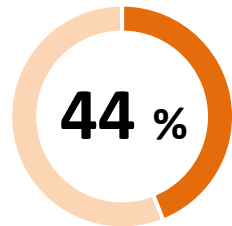
Participants' Age Distributions



No	School
1	Maktab Sultan Abu Bakar, Johor
2	MRSM Bentong, Pahang
3	SBP Integrasi Kuantan Slot 2
4	SBPI Pekan
5	Sekolah Tinggi Muar, Johor
6	SEMSAS Kuantan
7	SHAH Pekan
8	SK Ahmad, Pekan
9	SK Seri Biram, Pekan
10	SK Sinar Mutiara, Pekan
11	SMJKC Sin Min, Kedah
12	SMK A Al Ittihadiyah, Temerloh
13	SMK Bandar Mas, Johor
14	SMK Bukit Mentok, Terengganu
15	SMK Bukit Rangin, Pekan
16	SMK LKTP Chini, Pekan
17	SMK Methodist Girls School, Pekan
18	SMK Pekan
19	SMK Seri Bentong
20	SMK Seri Pancing
21	SMK Seri Saujana, Kuala Lumpur
22	SMK Sulaiman, Pahang
23	SMK Sultanah Hajjah Kalsom
24	SMK Tanjung Lumpur
25	SMK Tun Habab, Johor

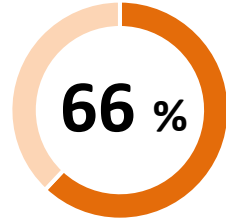
Summary of Engagement

Analysis of General Knowledge in Embedded Electronic Systems Average percentage of correct answers (26 questions)



Pre Program

Median 42 %
Range 0 – 88 %



Post Program

Median 65 %
Range 0 – 92 %

What would you explore after this program?

“ Make robot with sensors. I wish to learn more on how to apply the codes in machinery and hardware

I would like to explore more about Arduino, sensors the functionality of the microcontroller and microprocessor

I want to learn about autonomous robot and more types of topics in microcontrollers ”

General Comments about the Program

“ So great. I love to learn and to get knowledge about the process. Thank you for your teaching and we've got learning about it.

Thank you for changing my perception about programming.

I want to thank my mentors for being able to teach us for 4 hours these past 2 days. I hope you will able to teach us again some time soon

This program is a very good platform to help RBT teachers in understanding about microcontroller which is one of a hard topic for us. Hope UMP can invite me for other courses about STEM. ”

Was UMP mentors helpful?



Yes

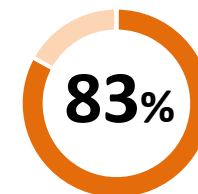
“ they guide us whenever we in problem and teach us how to understand the programming

Yes, he was. He frequently checks the meeting chat and tries to make sure that everyone was keeping up.

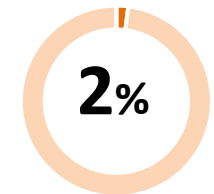
Yes. He always explained after the video is shown and helps to understand the students who do not understand

Yes He explained the coding 1 by 1 ”

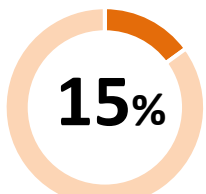
Would you be interested in pursuing your studies in the engineering program?



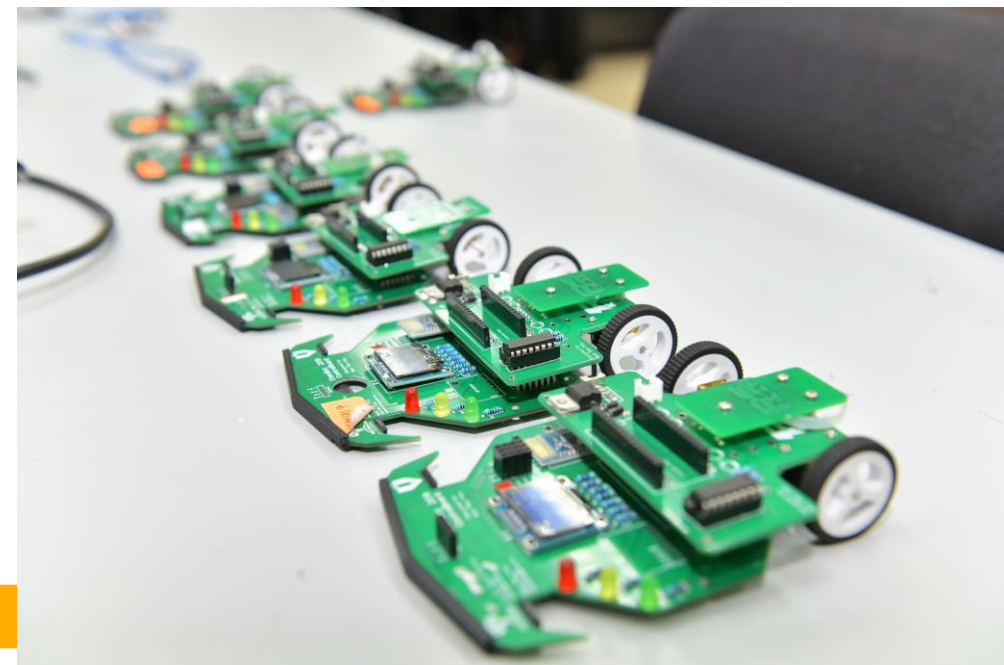
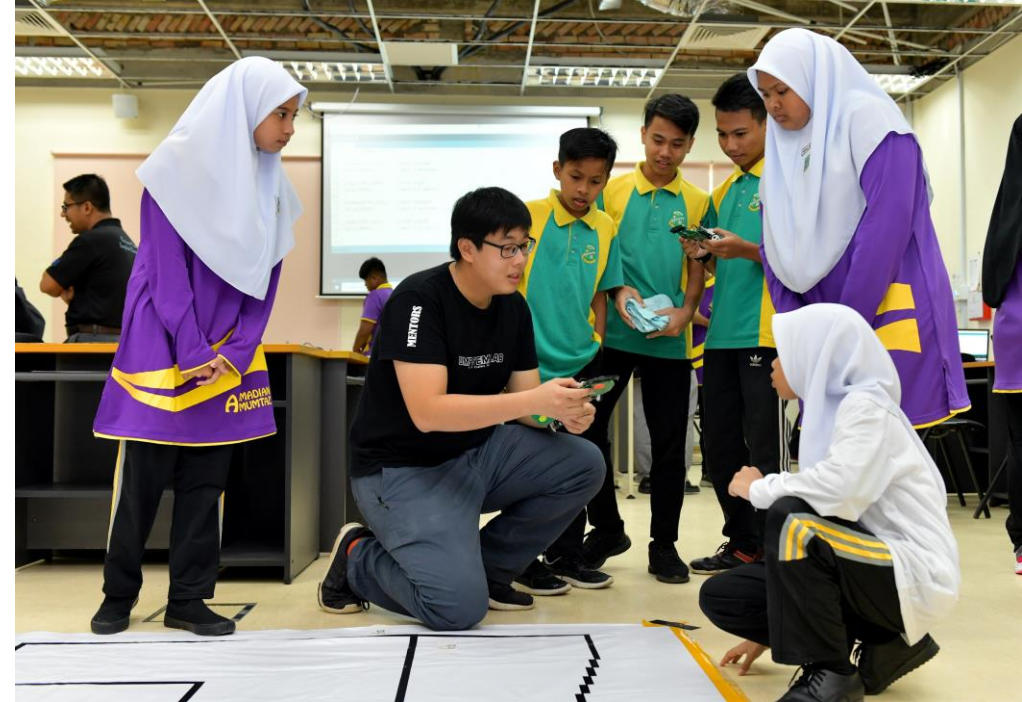
Yes



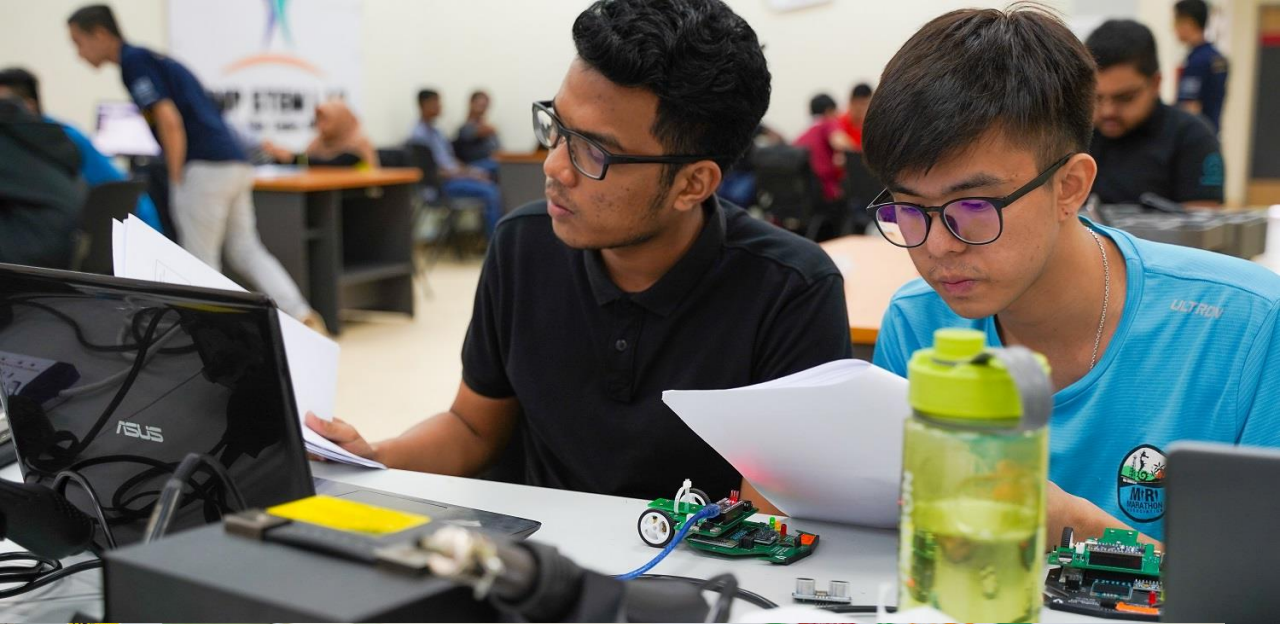
Maybe



No



Think





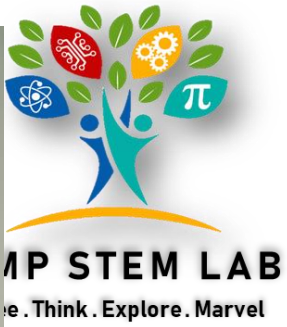


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Explore









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