FINAL REPORT

for

APT Young Professional and Students Program 2018

in

Myanmar

PREPARED BY

MYANMAR COMPUTER PROFESSIONAL ASSOCIATION

MCPA

---

www.mcpamyanmar.org.mm

info@mcpamyanmar.org.mm

APT young professional and students programme (APTYPS2018) " University Robotic Challenge " competitions 2018 in myanmar have proved to be an effective instrument to foster scientific research and push the state of the art in a given field. Teams participating in a competition must identify best practice solutions covering a wide range of functionalities and integrate them into practical systems. These systems have to work in the real world, outside of the usual laboratory conditions. The   competition   experience helps to transfer the applied methods and tools to successful and high-impact real world applications. By participating in robot competitions , young students are attracted to science and engineering disciplines. Through competition events, the relevance of robotics research is demonstrated to citizens.

Participants are encouraged to explore new ways and use different materials to challenge fields of mechanics, IT, electronics, and engineering design. The competition provide opportunities for working and playing as families or with newly formed friends to build teamwork and bond with others. And at the end of the competition, each one will bring university home more than medals and trophies. They will bring home an experience of building a community of university network in Myanmar.

Organizing each of the competition Events followed and improved established be "Robotic Competition. Sub-topics under the Categories field for young professionals undergraduate Students.

🐧 Fire Fighting (Autonomous type)

Participants are required to build an autonomous, self-contained mobile robot that is able to enter every room in the arena, identify a candle with fire and extinguish it with any type of extinguisher. To build a robot that will avoid blowing candles To build a robot that will avoid blowing candles without fire and candles with false fire until it reaches the grand fire which is located at   the arena.

🐧 Search & Rescue (Remote Control)

Participants must build a remote controlled robot that has to search and rescue the objects in the given arena. The robot must place back the rescued objects back to the given container.

Competition shall be divided into 2 categories and qualifications for each category are same as follows:

(See on Attachment Annex -1).
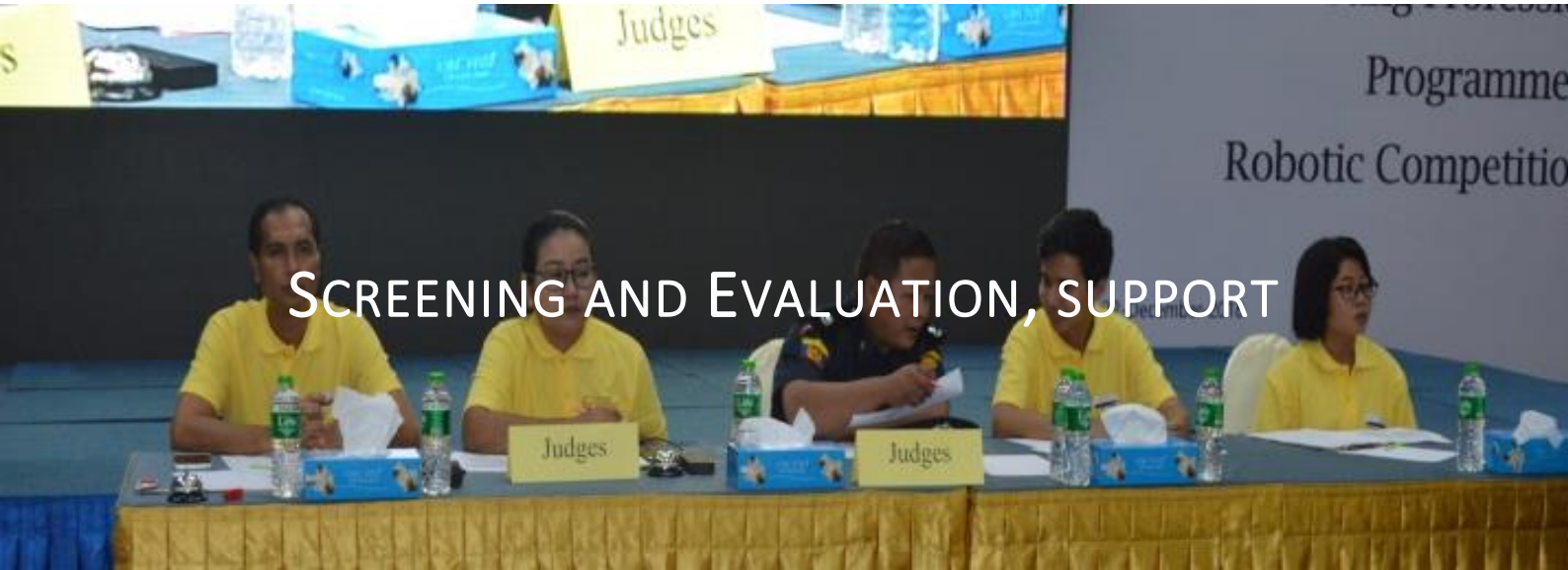
For young professionals undergraduate Students -

Qualification	Category	
	Fire Fighting / Search & Rescue	Coach / mentor
Nationality	Myanmar	Myanmar
Age under	Under 25	No Limit
Degree Level	Undergraduate students from all universities, private & international schools in Myanmar.	Teachers from all universities, private &international schools in Myanmar.

PRESS CONFERENCE

Press release on Date – November 8th 2018 , Invited to news channel and medias , technical & computer university of Yangon regional and other state . To release news and call for Participation, requiring teams application form download from website www.mcpamyanmar.org , https://www.facebook.com/aptyps.aptyps.1. (*See on Attachment Annex – 2*)

Figure 1: Press release for APT Young Professionals and students Programme 2018

SCREENING AND EVALUATION, SUPPORT

- Organizing committee received participation several teams from state and regional university of Myanmar .
- Screening and Evaluation result by date of 23 November 2018.
- Selecting the qualified teams from among the applicants ; only short listed 20 teams participate in all categories for Robotic competition by 22 December 2018. (*See on Attachment Annex – 3*)
- Support to each team members for robotic kits accessories.
- Delivering the final version of the rulebooks, scoring criteria, modules and metric for benchmarking about 1 month before the actual competition dates. (check on Attachment rule assessment guide)
- Support for Teams several devices and software modules required by the competition rules.
- Preparing materials for teams (shirts, schedule).

DETECT TESTING AND PRACTICE WITH ARENA

- Preparing the testing equipment's robotic parts (size, components motor , battery , remote controlled , wheel and others machines parts) and detect software module for programming by Date of 19, 20, 21 December 2018.
- Explain rules and guide, to establishing a schedule for the competitions and their different components.
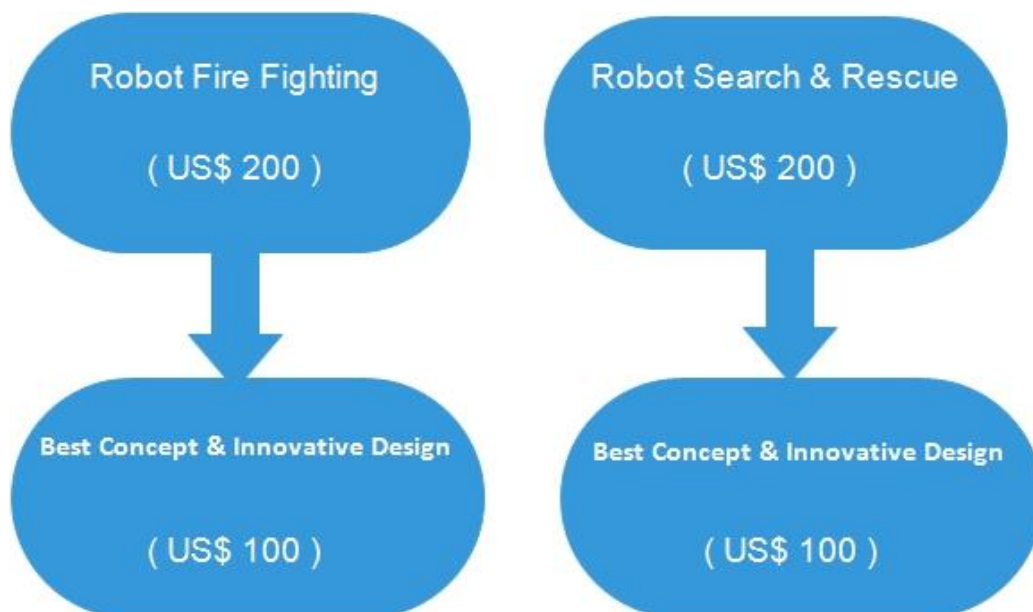- Preparing the test drive on prototype Arena for practice.
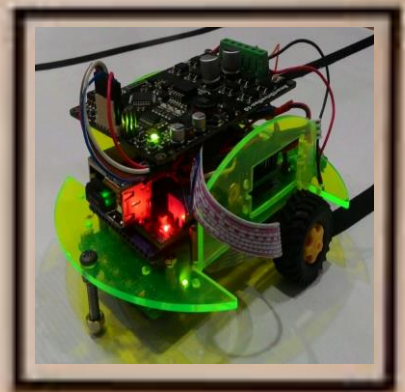
Figure 2: Test Drive on Prototype Arena

INVITATION FOR

JUDGES, SPECIAL GUEST , UNIVERSITY AND MEDIA

- Officially invited as judges for competition from Assistant Director (Fire Department , Yangon) , Professor and Head (Dept of information Technology , West Yangon Technological University (WYTU)) , Coordinator (Teacher , Fun & Learn robot Education Center) and from two member (APTYPS Robotic Organizing Committee)

- Officially invited as special guest from   Ministry of Transport and Communications, Ministry of Education, Myanmar Computer Federation , related rector from all university and interest people .

- Invited as Media from Local news of MRTV 4 , MNTV , Skynet and news of journal .

Award :   The best 4 Candidates will be selected for :

Events   :   Date of 22, December 2018.

Venue   :   Conference Hall, MICT Park, Yangon, Myanmar

Time   :   9 : 00 AM to 3:00 PM

(**Morning** Session :   Fire Fighting and   **Afternoon** Session :   Search & Rescue)

Best Concept   :   (choose best one of each both category on during competition.)

& Innovative Design

Award Winner   :   3:30 PM

Ceremony

Media   :   Facebook Live show on whole events.

Figure 3:Judges for competition

Figure 4:Fire Fighting competition

Figure 5: Teams Table repair for robotic ready

Figure 6: Search & Rescue

Figure 7: Judges detect Best Concept & Innovative Design

Figure 8: Invitation of guest

FINAL COMPETITION AWARD

No.	Team Name	Competition Name	Award Name	University
1	Team Spades	Fire Fighting	First Prize	Yangon Technological University
2	GG	Search and Rescue	First Prize	University of Information Technology
3	CU MGW	Fire Fighting	Best concept & Innovative Design Prize	University of Computer Studies, Magway.
4	1 : 1	Search and Rescue	Best concept & Innovative Design Prize	University of Computer Studies, Thaton.

Media Facebook View

Officially Live Facebook views on page
https://www.facebook.com/mcf.myanmar.computer.federation/
https://www.facebook.com/mcpamyanmar.org/videos/2135312873397189/

Figure 9: Opening speech by Deputy Permanent Secretary of Ministry of Transport and Communications

Figure 10:Opening Speech by President of Myanmar Computer Professionals Association

Figure 11:Fire Fighting First prize award By President of Myanmar Computer Federation

Figure 12: Search & Rescue First Prize award By President of Myanmar Computer Federation

Figure 13: Fire Fighting Best Concept & Innovative Design Prize award by Deputy Permanent Secretary of Ministry of Transport and Communications

Figure 14 : Search & Rescue Best Concept & Innovative Design Prize award by Deputy Permanent Secretary of Ministry of Transport and Communications

Figure 15: Present for judges Honorable by President of Myanmar Computer Professionals Association

Figure 16: Group Photo Session

Figure 17: APT Program Interview by Joint Secretary of Myanmar Computer Professionals Association

CONCLUSION

Successfully ! And It's about Time.

Today we find most robots working for people in industries, factories, warehouses, and laboratories. Robots are useful in many ways. For instance, it boosts economy because businesses need to be efficient to keep up with the industry competition. Today robots roles include assisting research for university and industry in Myanmar. Our goals are university students to be participant world robotic competition in future. Finally, as the technology improves, there will be new ways to use robots which will bring new hopes and new potentials.

ACKNOWLEDGEMENTS
Thanks you very much to APT (Asia pacific tele -community) for all of their financial support contribution of young professional and students in Myanmar.

Also Thanks support from Ministry of transport and communication, Myanmar Computer Federation and technical assistance support from Student union, West Yangon Technological University.

Organizing Committee for Events

Myanmar Computer Professionals Association (MCPA)

Students' Union, West Yangon Technological University (WYTU)

Organizing Committee

Myanmar Computer Professionals Association (MCPA)

Address	:	Ground Floor, Building (9), MICT Park, Hlaing Tsp, Yangon, Myanmar.
Phone	:	+95-1-652276, +95-9-5067168
Email	:	office@mcpamyanmar.org
Website	:	www.mcpamyanmar.org
Contact Person	:	Zaw Win Tun (Mr.) Joint Secretary Myanmar Computer Professionals Association Ph: 959254200579
Email	:	zwintun@gmail.com, zawwintun@mcpamyanmar.org

Students' Union, West Yangon Technological University (WYTU)

Address	:	West Yangon Technological University Student's Union , Yangon. www.wytu.edu.mm.