Kamla Nehru Institute of Technology,

Sultanpur

Presents

robotum

Event- bob the builder

MINIONS has to constructing **an evil bot** so that they could create the mansion which GRU wants

<u>Event description-</u> *MANUAL ROBOTIC EVENT which could be wired or wireless. The bot should be capable of moving on rough, sandy and elevated surface. Your bot should be made in such a way that it can move in water, although it should NOT specifically an amphibian bot. The objective of the bot will be to steal the pillars, building blocks and pyramids. After stealing them it should construct the mansion for GRU.*
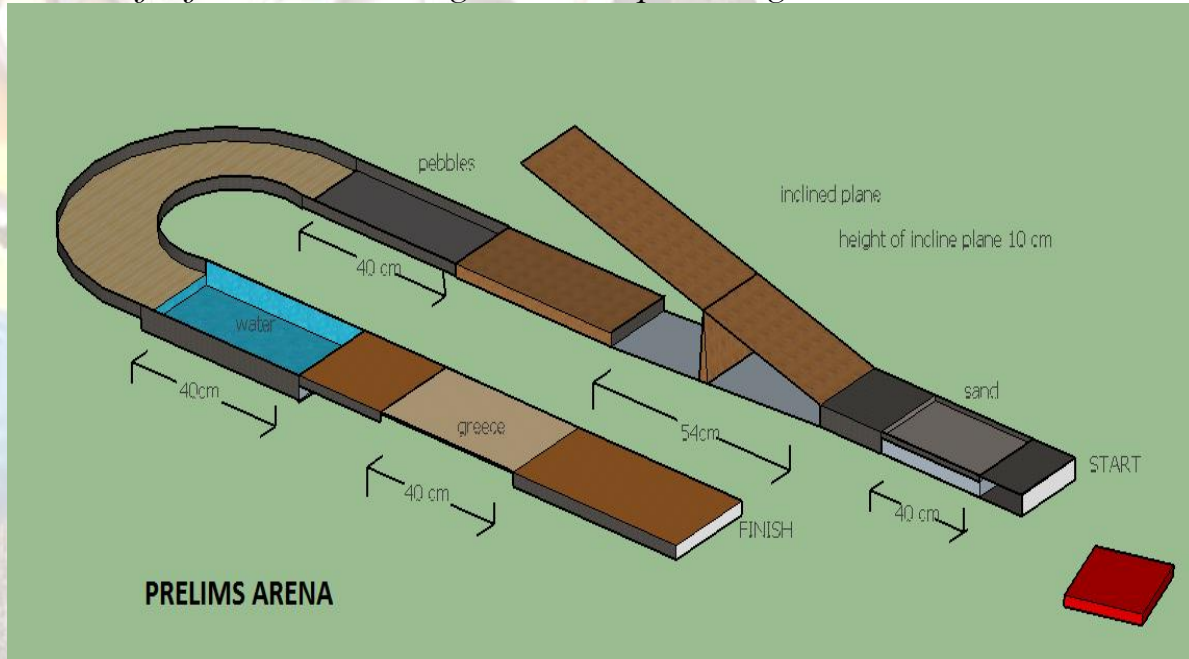
<u>Event rules-</u>

- *Each team can have a maximum of 4 participants.*
- *A team may consist of students from different colleges.*
- *Certificates of Excellence will be awarded to the top three teams and participation certificates will be awarded to all.*
- *No damage should be made by a bot to the arena or to other team's bots during the match any manner.*
- *Bots should not be disassembled until the results are declared.*
- *When a team is called for match, they must report within 15-20 minutes prior from the reporting time.*
- *The organizers reserve the right to change the rules as they deem fit.*
- *Judges decision will be final.*

Director & Patron	Convener	Organising Secretary	Joint Secretary	Treasurer	Robotum T.R	Event Head
Dr. Raghuraj Singh	Dr. Ajay Shekhar Pandey	Ayush Srivastava	Shamad Manauwar	Ashish Kr. Mandal	Shailendra Kr. Gaur (Mobile no. 8765281778)	Rahul Singh (Mobile no. 8765281778)

Event Hierarchy –

Prelims :

The teams will be given only one trial. The top teams would then enter the FINAL round. The criteria for selecting top teams would be the total number of points scored. The time for first round will be given on the spot during the event.

PRELIMS ARENA

Final`s :

The teams will be divided into pools and in this round two teams have to play against each other. The team that completes construction of the mansion first will win. If both teams completes the mansion together then team with more points will win and move forward in the competition and the team that lose would be eliminated. There will be a wild card entry too.

Valid Bot specifications –

* *Bot can be wireless or wired.*
* *However wire must not interfere with arena and it must be slack at every point of time. Bot should be able to grip, lift, carry and place boxes.*
* *During the whole event bot must fit within a square of 350X300X300(lxbxh). Dimensions in mm. The bot arms should come within the specified dimensions when the bot is not operating.*
* *Flippers, grippers should be well within the given dimensions.*
* *The Robot must be stable and able to move on its own. A Bot not fulfilling these criteria will be disqualified.*
* *The bot cannot have any mechanism that can damage the arena in any manner.*
* *The bots shall be inspected before the event. Failing the inspection shall lead to disqualification.*
* *The wire used to power/feed the bot should remain slack at all times.*
* *Each team has to bring its own power supply for its robots.*
* *The voltage difference between any two points on the bot must not exceed 24 volts.*

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- *Pneumatic/Hydraulic/Cutter/Projectile/Entanglement etc. mechanisms are NOT allowed.*
- *Wireless Control- If you are using a home built control system, or a control system not commercially available, you must first clear it with the Managers.*

Game play-

- *Bot has to carry the blocks, pillars and pyramids to the FINISH end of the arena to build the mansion.*
- *Bot can carry only one structure at a time.*
- *Bot should follow the path crossing all the hurdles. For each hurdle crossed successfully by the bot team will be awarded 10 points.*
- *Each structure which the bot will bring to the FINISH line will also have points.*
- *There will be negative marking for toppling of bot.*
- *There will be negative marking if bot loose the structure during the path.*
- *Bot will be given at most two breaks of 1 min each during the game play.*

Please check http://effulgencefest.com/ for any further updates or Join Facebook group- BoB the builder link is https://www.facebook.com/groups/783358191748705/
For further quires contact –
- *Technical representative-* **Shailendra Kr. Gaur (Mobile no. 8765281778)**
- *Event head-Mr Rahul Singh (Mobile no. 8765281778)*