DPS MONARCH INTERNATIONAL SCHOOL

PRESENTS

MONARCH TECHFEST 5 - TECHGLANZ

A GRAND TECHNOLOGICAL EXTRAVAGANZA

THURSDAY,
13TH JUNE 2024

SCHOOL
MULTIPURPOSE HALL

DPS Monarch International School invites you to participate in the Monarch Tech Fest 5 – TECHGLANZ; a series of Information Technology and Robotics-based competitions for the students of Grade V – XII commencing from Sunday, June 9th, 2024. The Award Ceremony and Grand Finale will be held on Thursday, June 13th, 2024.

About TECHGLANZ 2024

TECHGLANZ 2024 is crafted with an aim of building platform to create a cyber syndicate and to unlock the true potential of our young learners in the field of technology. With the growing use of web-based tools and technology, it is important to encourage skill-building in this essential domain. We are excited to welcome you all to the grand technological extravaganza.

Event Categories

- Digital Doodle
- Code Illusionist
- Motion Palette
- Artificial Intelligence Challenge
- Glam Egrafo
- Dub-o-Mania
- Zephyr
- Robo Race
- Innovation Hunt
- Line Following Robot
- Soccer Robot
- Techie Master

General Instructions

- TECHGLANZ 2024 will be a blend of online and in-person competitions.
- ONE entry per event from each school will be accepted.
- Entries received through the registration link mentioned on the website only will be accepted.
- Dress Code for all attendees on Grand Finale: **School Uniform**
- All participating teams will be allocated a unique code after registration which must be used throughout the event.
- Registrations Link will be open from **Monday, 28th May 2024**
- Last date of registeration is **Sunday, 2nd June,2024**
- All submissions to be completed as advised in below slides
- Registerations to be done only through School website - https://misdoha.com/
- Any queries to be mailed at: **events@misdoha.com**
- Details of student categories are as below:
  - Techie Juniors – Grade 5 to 8
  - Techie Seniors – Grade 9 to 12

Glam Egrafo
Event Code: TG01

- Format: Digital Poster Designing
- Topic: Application of Robotics
- Eligibility: Techie Juniors (Grade 5 to 8)
- Participants: ONE student per school
- Framework: To design a digital poster using any software
- File Type: .jpg, .jfif
- Submission: To be mailed to the given mail ID
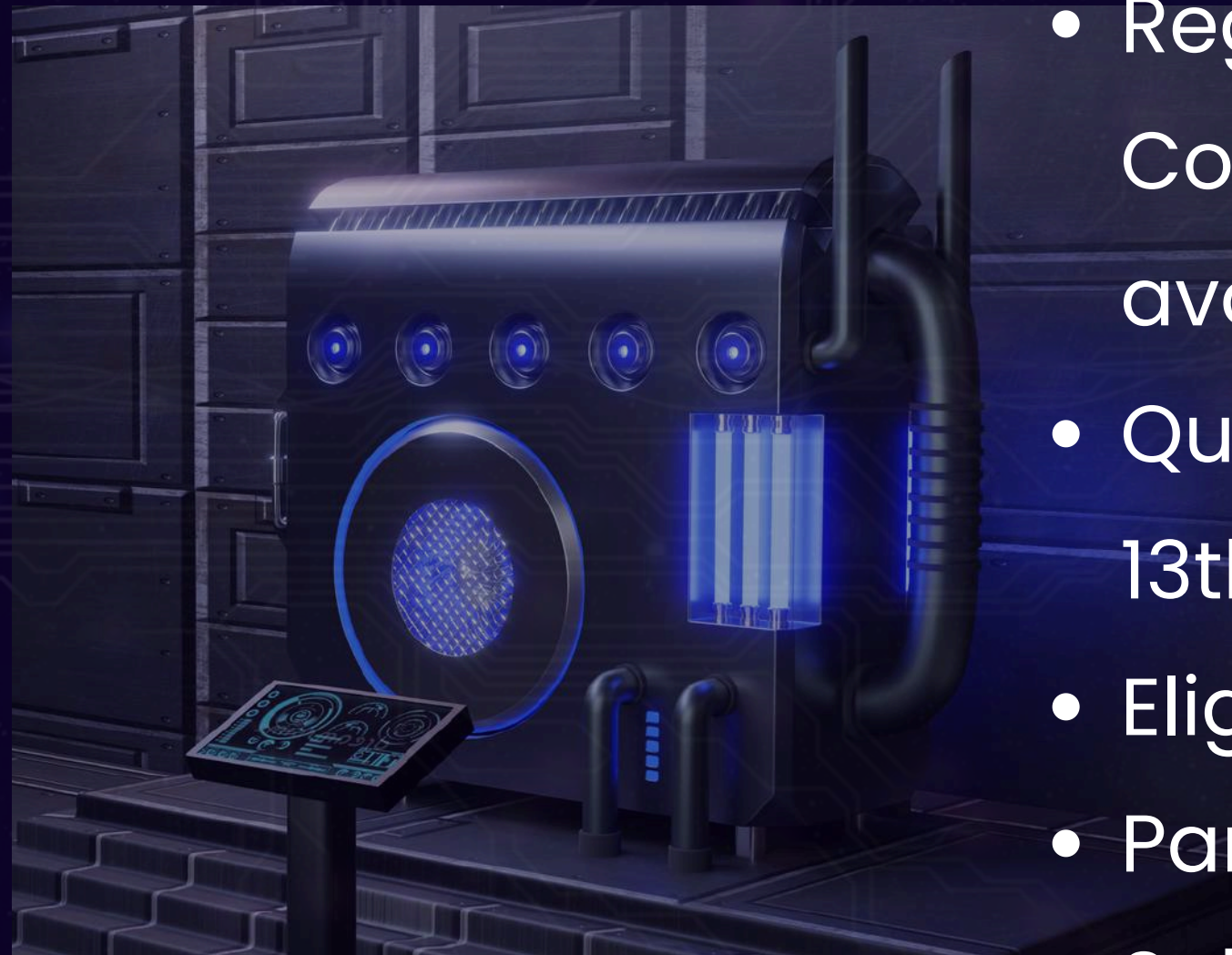- Last date of submission: Thursday, 6th June 2024

Zephyr
Event Code: TG02

- <u>Format:</u> Audio-mixing

- <u>Framework:</u> Registered teams will be given a base string to remix. Contestants should resist the temptation to maximize loudness to the detriment of tonal balance and musical dynamics.

- <u>Eligibility:</u> Techie Juniors (Grade 5 to 8)

- <u>Participants:</u> ONE student per school

- <u>Duration of the string:</u> Maximum 2 minutes

- <u>Submission:</u> To be mailed to the given mail ID

- <u>Last date of submission:</u> Thursday, 6th June 2024

Dub-O-Mania
Event Code: TG03

- Format: Adding vocals/dialogs to the base video file.

- Registered teams will begiven a basevideo file to dub. Contestants to ensure proper use of language and avoid any offensive dialogs.

- Qualifying team will be intimated for the final round on 13th June,2024.

- Eligibility: Robo Seniors (Grade 9 to 12)

- Participants: 4 to 5 students per team/school

- Submission: To be mailed to the given mail ID

- Last date of submission: Thursday, 6th June 2024

Motion Palette
Event Code: TG04

- <u>Format:</u> Animation based

- <u>Theme:</u> Act by any iconic Cartoon character. Qualifying team will be intimated for the final round on 13th June,2024.

- Qualifying team will be intimated for the final round on 13th June,2024.

- <u>File Type:</u> *.wmv, *.avi, *.mpeg, *.mov

- <u>Eligibility:</u> Techie Juniors (Grade 6 to 8)

- <u>Participants:</u> ONE student per school

- <u>Framework:</u> Contestants will be provided with technical set-up.

- <u>Date of the event:</u> Thursday, 13th June 2024

- <u>Duration to complete the project:</u> 60 minutes

Code Illusionist
Event Code: TG05

- <u>Format:</u> Creating an application by Coding

- <u>Topic:</u> Desktop Notifier App or Dice Roller Simulator (It should have GUI and CUI both using python)

- <u>Eligibility:</u> Techie Seniors (Grade 9 to 12)

- <u>Participants:</u> TWO students/Team per school

- Contestants will be provided with technical set-up.

- <u>Date of the event:</u> Thursday, 13th June 2024

- <u>Last Date of Registration:</u> Thursday, 6th June 2024

- <u>Language to be used:</u> Python

- <u>Duration to complete the project:</u> 60 minutes

Digital Doodle
Event Code: TG06

- <u>Format:</u> Digital doodle-making

- <u>Theme:</u> will be given on the spot

- <u>Eligibility:</u> Techie Juniors (Grade 5 to 8)

- <u>Participants:</u> TWO students/Team per school

- <u>Framework:</u> Contestants will be provided with technical set-up.

- <u>Software to be used:</u> MS Office Package, MS Paint, Paint 3D

- <u>Duration to complete the project:</u> 45 minutes

- <u>Date of the event:</u> Thursday, 13th June 2024

Techie Master
Event Code: TG07

- Format: Quiz based on Robotics,AI and Information Technology

- Eligibility: Techie Seniors (Grade 9 to 12) and Techie Juniors(Grade 5 to 8)

- Participants: FOUR students/Team per school (Two from each group)

- Date of the event: Thursday, 13th June 2024

- Criteria: Qualifying round will be conducted virtually for registered teams. Date of the Qualifying round will be communicated upon Registration.

- Top FOUR teams will qualify for the Final Round held on Thursday, 13th June 2024.

Robo Race
Event Code: TG08

Format – To complete a track filled of obstacles in shortest time.

Eligibility – Techie Juniors (Grade 5 to 8)

Participants – 4 students/team per school

Robot -

- Battery – Voltage of battery must not exceed 12V.

- Size – Robot size must not exceed 25x25x25 cm

- Robot – Robot can be Wired or Wireless

- Weight – Robot weight must not exceed 2Kg

Date of the event – Thursday, 13th June 2024

Robot Race
Sample Track

Innovation Hunt
Event Code: TG09

Format – Team needs to prepare A1 size poster of their innovative project based on given topic along with the Prototype Students need to submit a recorded video (Max 3 Minutes) of students explaining the idea along with poster and prototype and mail it before 6th June 2024.

Topic – **Robots for Everyday Life – Smart Home Robots**
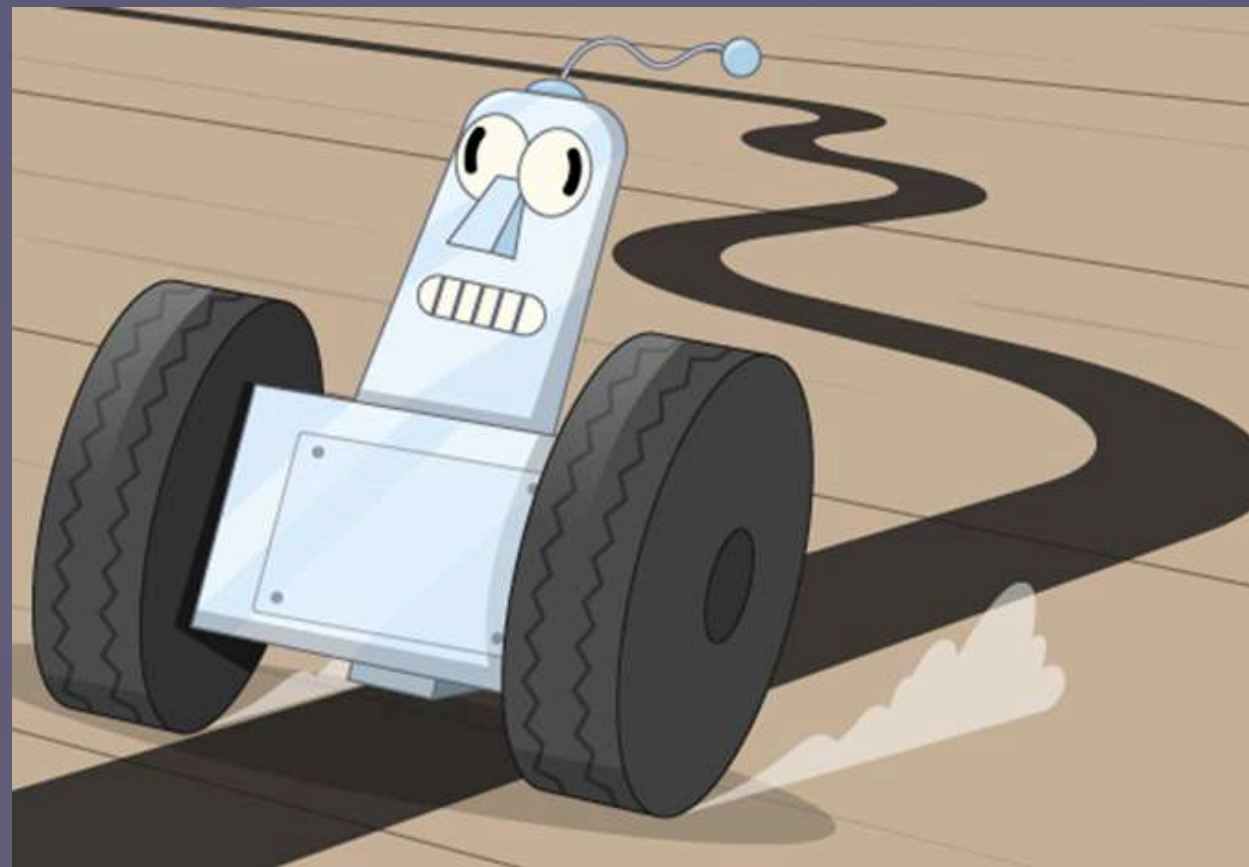
Eligibility – Techie Juniors (Grade 5 to 8)

Participants – 4 students/ team per school

Date of the Event – Top 5 teams will qualify for the final round which will be held on Thursday, 13th June 2024

Submission – To be mailed to the given mail ID

Line Following Robot
Event Code: TG10

Format – To complete track in shortest time by following line.

Eligibility – Techie Seniors (Grade 9 to 12)

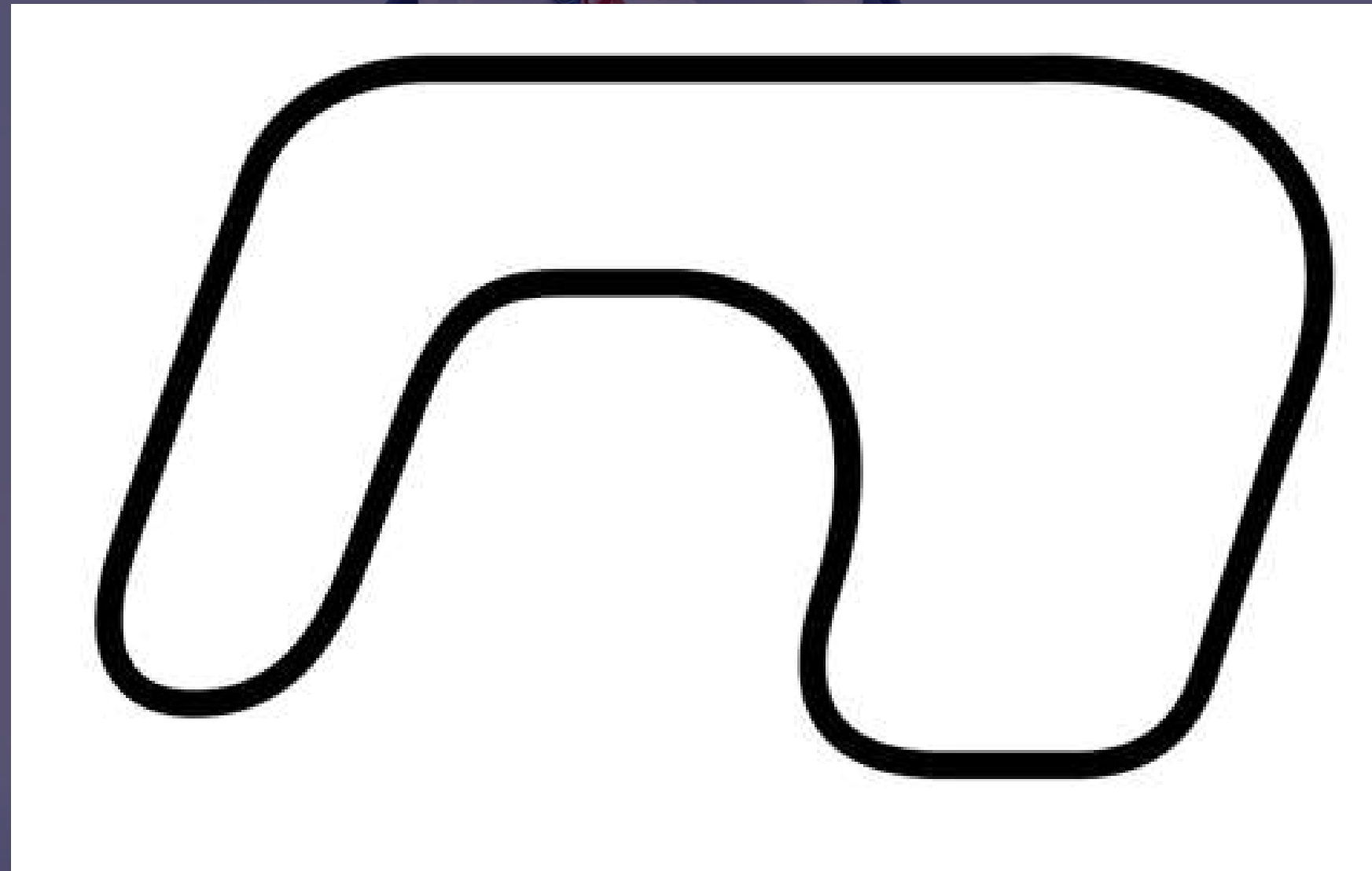**Participants** – 4 students/team per school

Robot -

- **Size** – Robot size must not exceed **25x25x25 cm**

- **Robot** – Robot must be **autonomous**.

- **Weight –** Robot weight must not exceed 2 Kg.

Date of the Event – Thursday, 13th June 2024.

Line Following Robot
Sample Track

Soccer Robot
Event Code: TG11

Format – To score maximum number of goals in a **1:1** soccer match. Each match will be of **3 mins**.

Eligibility – Techie Seniors (Grade 9 to 12)

Participants – **4** students/team per school.

Robot -

- **Battery** – Voltage of battery must not exceed **12V.**
- **Size** – Robot size must not exceed **25x25x25 cm.**
- **Robot** – Robot must be controlled **wirelessly**.
- Robot weight must not exceed **2Kg.**
- **Grabbing /enclosing** of ball is not allowed.

Date of the Event – Thursday, 13th June 2024.

Soccer Robot
Sample Track

Artificial Intelligence Challenge
Event Code: TG12

Format – Team needs to prepare a presentation on given topic. Students need to find an innovative and creative AI solution which can be deployed to resolve practical problems. Students need to record a video (Max 3 min.) presenting an idea (demo of working model/prototype can be added in the presentation)

Topic – **Sustainability:** Developing AI solutions for energy efficiency, waste management, or environmental monitoring.

Eligibility – Techie Seniors (Grade 9 – 12)

Participants – **4** students/team per school.

Submission – to be mailed on the given mail ID by 6th June 2024.

Date of the Event – Top 5 teams will qualify for the final round which will be held on Thursday, 13th June 2024..

Thank You!

Looking forward for your participation

https://misdoha.com/

✉ events@misdoha.com