RULES & REGULATIONS

Please carefully review the following rules and regulations before participating in our event. All participants are expected to comply with the following regulations to ensure a fair and competitive setting for everyone involved. By participating in this event, you agree to abide by these rules and regulations.

Nexentia.lk

MECHATRON | ROBOTIC DESIGN RULES AND REGULATIONS

TASK

BUILD A FUNCTIONAL ROBOT (WIRED OR WIRELESS) THAT SOLVES A BASIC PROBLEM OR PERFORMS A USEFUL TASK. THE ROBOT CONCEPT MUST ADDRESS A REAL-WORLD PROBLEM OR FUTURISTIC INNOVATION IN AREAS LIKE HEALTHCARE, ENVIRONMENT, SPACE, DAILY LIFE, EDUCATION, ETC.

ELIGIBILITY AND PARTICIPATION

- STUDENTS FROM GRADE 9-13 CAN PARTICIPATE IN THIS COMPETITION.
- INDIVIDUAL OR TEAMS OF UP TO 3 MEMBERS.
- 2 SUBM
- ONLY ONE SUBMISSION IS ACCEPTED FROM EACH TEAM.
- ALL TEAM MEMBERS MUST BE STUDENTS OF THE PARTICIPATING SCHOOL.

COMPETITION FORMAT

ROUND 1 – ONLINE SUBMISSION

- TEAMS SUBMIT A SLIDE PRESENTATION AND ROBOT STRUCTURE/MODEL DESIGN.
- TOP 10 TEAMS WILL BE SELECTED AS SEMI-FINALISTS.

ROUND 2 - FINAL ROUND

- FINALISTS WILL PRESENT THEIR PROJECT LIVE FOR 15 MINUTES WHICH WILL BE HELD PHYSICALLY (15 MIN PRESENTATION + 5 MIN Q&A).

INSTRUCTIONS

PARTICIPANTS MUST SUBMIT THE FOLLOWING THROUGH THE OFFICIAL GOOGLE FORM:
(UPLOAD THE PRESENTATION AND THE MODEL DESIGN TO A GOOGLE DRIVE LINK AND MANAGE THE ACCESS TO ANYONE WITH LINK,YOU HAVE TO SUBMIT WITH THE DRIVE LINK IN THE FORM)

SLIDE PRESENTATION (PDF OR PPT) INCLUDING:

- ROBOT NAME, PURPOSE, CONCEPT
- PROBLEM IT SOLVES
- HOW IT WORKS (MECHANISM, PARTS, AUTOMATION)
- DESIGN VISUALS ,CONCEPT FLOW
- TECHNOLOGIES USED, ORIGINALITY

ROBOT STRUCTURE/DESIGN

OPTIONS ALLOWED:

- 3D MODEL FROM ANY PREFFERED SOFTWARE
  (E.G., TINKERCAD, FUSION 360,BLENDER ETC,...)
- HANDMADE MODEL PHOTOS (CLEAR, MULTI-ANGLE)
  NO RESTRICTIONS ON MATERIALS FOR HANDMADE MODELS.
- HAND-DRAWN OR DIGITALLY ILLUSTRATED SKETCHES , (MULTI-ANGLE)

SCORING

Criteria	Marks	Description
🔹 **Innovation & Originality**	25	How unique and futuristic is the robot idea? Does it stand out?
🔹 **Problem Relevance**	20	How clearly does the robot solve a real-world or futuristic problem?
🔹 **Robot Structure & Design**	15	Creativity and effort shown in model (3D, handmade, or sketch). Additional points for 3D Models
🔹 **Technical Explanation**	15	How well is the robot's mechanism or concept explained in the slides?
🔹 **Slide Presentation Quality**	10	Neatness, clarity, and visual appeal of the slides
🔹 **Optional Video (Functionality)**	5	If a video is submitted, does it show working parts or functionality? *(not compulsory)*
Total	**90 + 10 Bonus**	Max total score: **100** with bonus included

ADDITIONAL RULES

- PLAGIARISM: ANY USE OF NON-ORIGINAL MECHANICAL DESIGNS, ROBOT PLANS, OR COPIED CONCEPTS WILL RESULT IN IMMEDIATE DISQUALIFICATION.
- PRE-BUILT ROBOTS: ROBOTS THAT HAVE ALREADY BEEN SUBMITTED TO OR WON OTHER COMPETITIONS ARE NOT ALLOWED.
- COMPETITION PERIOD REQUIREMENT: ALL ROBOTS MUST BE BUILT DURING THE COMPETITION PERIOD. PREVIOUSLY COMPLETED OR MODIFIED BUILDS WILL NOT BE ACCEPTED.
- THIRD-PARTY PARTS: PARTICIPANTS MAY USE MOTORS, SENSORS, AND OPEN-SOURCE HARDWARE, BUT THE MECHANICAL ASSEMBLY AND LOGIC MUST BE PARTICIPANT-BUILT.
- AI ASSISTANCE: AI TOOLS MAY ASSIST IN LEARNING, BUT ENTIRE ROBOT CODE OR DESIGN CANNOT BE AI-GENERATED.

CONTACT US

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