

NCRC 2022 JUNIOR GUIDE/RULE BOOK

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Junior Category (7-9 Years)

1.1 Introduction

With the growing number of vehicles everyday, our transportation system is not able to handle the increasing load, Due to which we are facing lot of difficulties in the transportation sectors like schools, **hospitals** etc. we need you, "**The children of Next Generation**" to come up with an efficient transportation solution to make our world a better place

1.2 Theme: Emergency Rescue Unit

1.3 Platform : Vexcode.vr (Virtual platform) <https://vr.vex.com/>

1.4 Problem Statement : Create a simulation of the Hospital Transport System where you have to pick up patients based on the critical condition and emergency and drop them to the respective hospitals .

1.5 Rules & Regulations :

- 1) The participants are required to learn the **Scratch Programming Course** which is provided to them and do a project based on the problem statement.
- 2) The project should be done on the same platform(**VEX Code VR**)as taught in the courseware.
- 3) The participant should **create a video** introducing themselves and the **working of the project** along with the **code**.
- 4) The participant should also **create a PPT or PDF or Flowchart apart from the video** explaining the working of their project with realtime examples **(Documentation of the working model)**
- 5) Your project will be evaluated based on the following criteria :
 - a) Uniqueness (20%)
 - b) Presentation (20%)
 - c) Application (20%)
 - d) Technical Implementation (20%)
 - e) Innovation (20%)
- 6) No **team formation** is allowed, everyone must be an **individual** participant (**Only 1 project per participant**).
- 7) There are no limitations to the program blocks that you can use in your code.
- 8) The course and the coding platform uses a virtual robot.

NOTE : The mentors will help out the participants/students with any doubts they have regarding the courseware and competition but the project for the competition must be done by the students themselves.

1.6 Virtual Robot (To be used in the Competition):

