



INDIA

FOOTBALL CATEGORY



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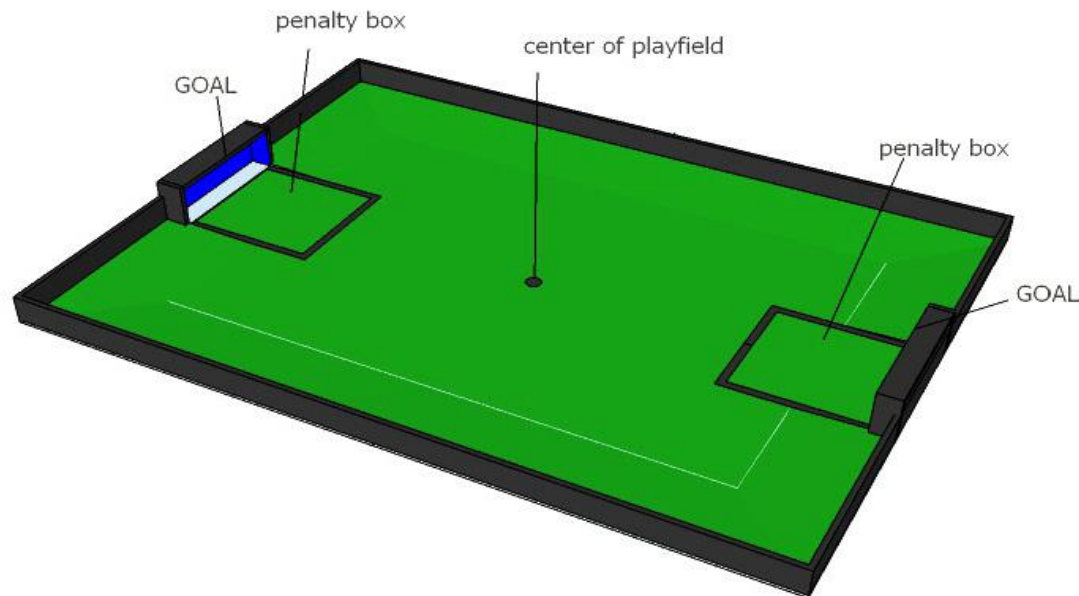
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विज्ञान एवं प्रौद्योगिकी विभाग
DEPARTMENT OF
SCIENCE & TECHNOLOGY

ABOUT GAME

WRO Football aims, where possible, to reflect the game of human soccer. Teams of two on two autonomous robots chase an infra-red transmitting ball around a table top field of standard size with the aim to score more goals than the opposition

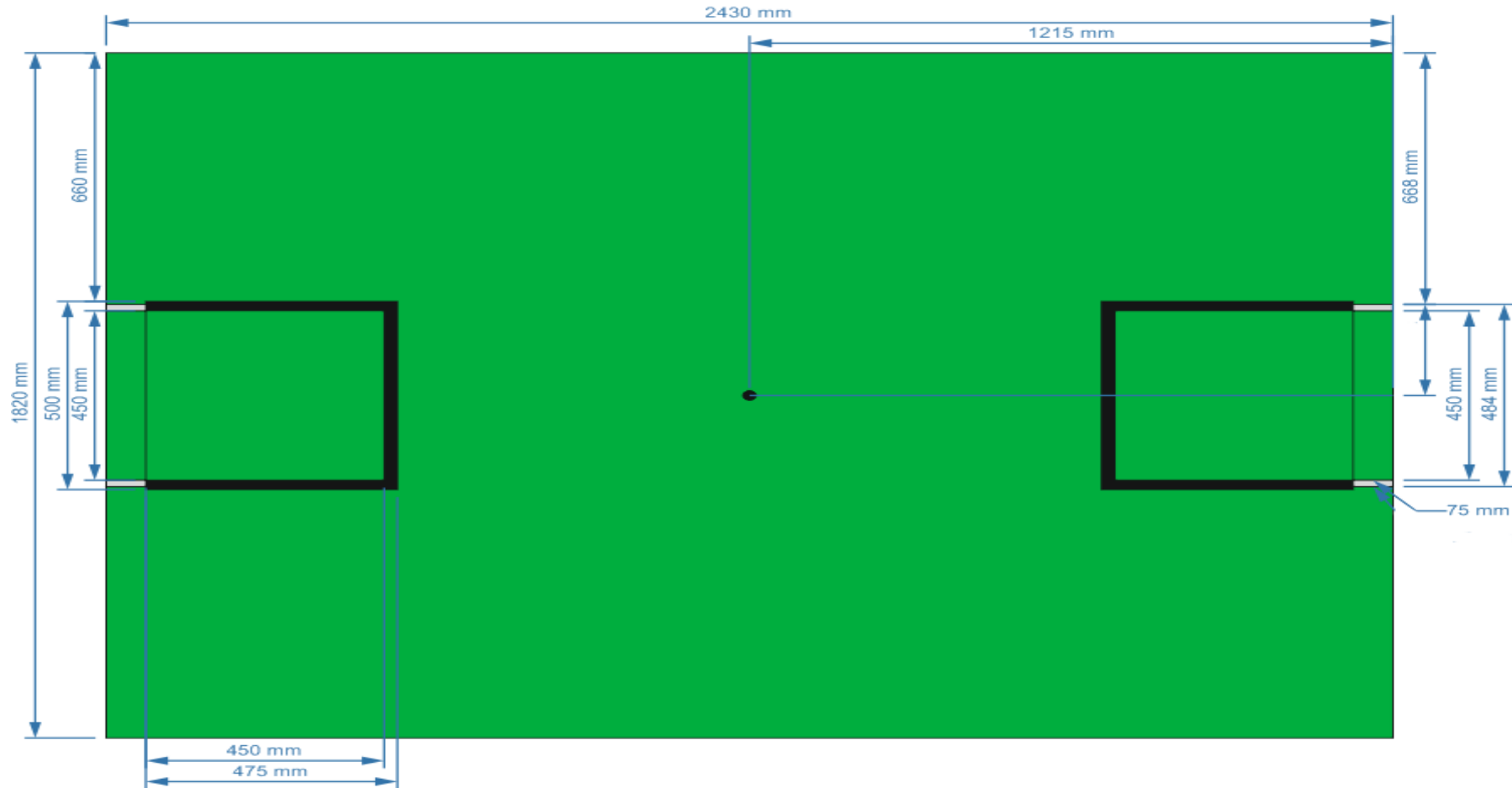


WRO Football Playfield

INTRODUCTION

- ▶ Age : 10 - 19 years
- ▶ A team consists of one (1) coach and two (2) or three (3) team members
- ▶ Team will consists of two robots. They can play either as goalie and forward or both forward
- ▶ Challenge time period = 2 x 5 minute halves
- ▶ Teams are allowed to have a maximum break of 5 minutes between halves to repair and reprogram robots
- ▶ The team scoring the most goals will win
- ▶ The official table size will be 1820 x 2430 mm

WRO Official Football Playfield



Recommended Kit of Parts

► Hardware

S.N.	Recommended Kit	Quantity
1	LEGO Mindstorms Education Nxt kit (9797) or LEGO Mindstorms education Ev3 core set (45544)	2
2	LEGO Mindstorms Education Resource (9695) or LEGO Mindstorms Education EV3 Expansion set (45560)	2
3	HiTechnic IR seeker v2 sensor(NSK1042)	2
4	HiTechnic compass sensor(MNC1034)	2
5	HiTechnic IR Ball (IRB1005)	1
6	WRO Football MAT	1

► Software

- Control programs must be Robolab, LEGO® MINDSTORMS™ EV3 or LEGO® MINDSTORMS™ NXT software



[India STEM Foundation]

[138A, Udyog Vihar, Phase- 6, Gurgaon 122001, Haryana, India]

[0124-4256955] | [www.indiastemfoundation.org]

**THANK
YOU!**