



VIT®

Vellore Institute of Technology  
(Deemed to be University under section 3 of UGC Act, 1956)



**FOOTBRAWLERS**

# TEAM **FOOTBRAWLERS**

VIT'S FIRST AUTONOMOUS FOOTBALL TEAM

SPONSORSHIP BROCHURE



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# ABOUT VIT

Vellore Institute of Technology (VIT) was established with the aim of providing quality higher education on par with international standards. It persistently seeks and adopts innovative methods to improve the quality of higher education on a consistent basis. The campus has a cosmopolitan atmosphere with students from all corners of the globe. Experienced and learned faculty are strongly encouraged to nurture the students. The global standards set at VIT in the field of teaching and research spur one on in their relentless pursuits of excellence. They provide for an exchange of students and faculty and encourage joint research projects for the mutual benefits of these universities.

VIT is committed to developing the next generation of researchers, scientists and academics through collaborative learning across disciplines. In terms of accreditation and academic rankings, VIT has retained the no. 1 position among Private engineering institutions in India for the 4th year in a row, among the most elite of universities in the NIRF ranking. VIT has been ranked the No. 1 Private institution in India for Innovation, at the first ARIIA (Atal Ranking of Institution for Innovation Achievements) 2019, by the Govt. of India. The world ranking body, QS, has given a 4 STAR rating to VIT, thereby making VIT the first educational institution in India to obtain a 4 STAR rating for three consecutive years. VIT has also completed 3 cycles of NAAC accreditation and has been rated an "A" grade. VIT has always been keen in establishing and providing a knowledge platform for innovative partnerships with all companies in various sectors.



## ABOUT THE TEAM

Team FootBrawlers is the first team in VIT to work on building autonomous robots to play football, progressing and moving forward towards participating in higher level competitions, such as the RoboCup. Team FootBrawlers is the first team in South India to work on an concept such as this. Owing to a group of extremely talented and experienced students from all disciplines, well versed with the applications and techniques involved in their particular fields, the vision can be made a clearer and a more solid one. All these departments together, a team of 20 members, work day in and day out to make this dream come true.



# THE ROBOCUP

The first official RoboCup games and conference was held in 1997 with great success. Over 40 teams participated (real and simulation combined), and over 5,000 spectators attended. In the history of artificial intelligence and robotics, the year 1997 will be remembered as a turning point. The idea of robots playing soccer was first mentioned by Professor Alan Mackworth (University of British Columbia, Canada) in a paper entitled "On Seeing Robots" presented at VI-92, 1992.

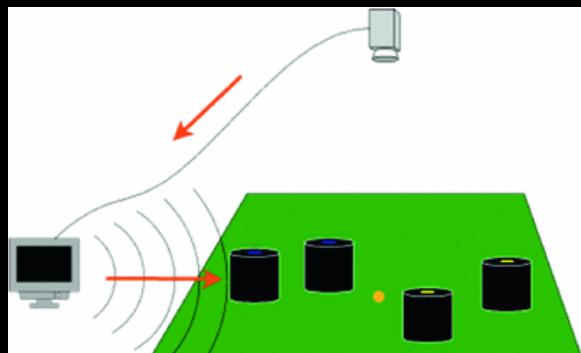
## *Our Target*

Our first aim and step towards our goal is to participate in the SSL division of the RoboCup competition that is expected to be held in May 2020. The Small Size league, otherwise known as the F180 league, is one of the oldest RoboCup Soccer leagues. It focuses on the problem of intelligent multi-robot/agent cooperation and control in a highly dynamic environment with a hybrid centralized /distributed system.

# HOW IT WORKS

A Small Size robot soccer game takes place between two teams of six robots each. Each robot must conform to the dimensions as specified in the F180 rules: the robot must fit within an 180 mm diameter circle and must be no higher than 15 cm. The robots play soccer with an orange golf ball on a green carpeted field that is 9 m long by 6 m wide.

All objects on the field are tracked by a standardized vision system that processes the data provided by four cameras that are attached to a camera bar located 4 m above the playing surface. The vision system - called SSLVision - is an open source project maintained by the league's community.



Off-field computers for each team are used for the processing required for coordination and control of the robots. Communication is wireless and uses dedicated commercial radio transmitter/receiver units.

# SPONSORSHIP SLABS

BENEFITS FOR THE SPONSOR	DIAMOND	GOLD	SILVER	BRONZE
	Rs 1,50,000	Rs 75,000	Rs 30,000	<Rs 30,000
No other sponsor without permission	✓			
Logos on autonomous bots	✓	✓		
Publicizing on our promotion videos and social media handles	✓	✓	✓	
Logos on team apparel and during all promotional events	✓	✓	✓	
Mention on official website	✓	✓	✓	✓

## *Sponsorship Benefits*

- Publicity to attract talent through our event and encouraging students in our University to join your esteemed organization when they move forward in their careers.
- Interaction with key University faculty and students to seed and solve your research problems with the problem statements that they will provide.

# HOW YOU CAN HELP US

**Technical Support:**

Helping us understand the working of different methods and software.

**Financial Support:**

Providing us with the necessary funds for the establishment of our software, manufacturing our autonomous robots and for the components needed to do so.

Publicizing our Team and its accomplishments, so that we are more exposed to other organizations and to expand our team and its achievements.



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# CONTACT US

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