



# St. JOSEPH'S INSTITUTE OF TECHNOLOGY

St. Joseph's Group of Institutions  
OMR, Chennai - 119

Department of Electronics and Communication Engineering  
(Accredited by NBA)



## St. JOSEPH'S ROBO CLUB

### ACADEMIC YEAR 2018-2019

#### INTRODUCTION/OBJECTIVES OF THE CLUB:

The St. Joseph's Robotics Club involves the student community who derive pleasure in creating robots that may even be potent to work without human intervention. The Club was created with the purpose of developing interest in the field of robotics among the student community. The Club will provide workspace, tools, and guidance to interested students apart from taking up specific projects. The Club provides an opportunity to participate in national or international level competitions.

#### INAUGURATION:

The St. Joseph's Robo Club Members are selected from the department of ECE, EEE, CSE, IT, CIVIL & MECH based on Willingness of Students from each department and scrutinizing process conducted to Shortlist the robo club members. St. Joseph's Robo Club is inaugurated on Aug 1, 2018 and invited Mr.R.Vignesh, Intern from Prag Robotics and also he is doing master's degree in Electrical Engineering at Drexel University, USA and Alumni of (2014-18) Passed out batch to deliver first session under St. Joseph's Robo Club on Introduction to robotics & Future of Robotics.



## TRAINING PROGRAM CONDUCTED

S.No.	Date	Name of the Industry	Topic	Days
1.	17.8.2018	Prag Robotics	Introduction to robotics & Future of Robotics	1 Day
2.	21.12.2018	RETECH solutions Pvt. Ltd.	Seminar Session on Robotics	1 Day
3.	05.02.2019	Lemma lab @ IIT Madras Research Park	Technical Seminar on Robotics	1 Day
4.	11.02.2019	RETECH solutions Pvt. Ltd.	Hands on session on design of the Line follower Bot	1 Day

## TECHNICAL SEMINAR SESSION ON ROBOTICS FROM LEMA LABS @ IIT MADRAS RESEARCH PARK



**ACADEMIC YEAR 2019-2020**



**Design and Development of Robot By New Propeller Technologies R&D Pvt Ltd,  
Chennai**

## TRAINING PROGRAM CONDUCTED

S.No.	Date	Name of the Industry	Topic	Days
1.	29.8.2019 & 30.8.2019	New Propeller Technologies R&D Pvt Ltd, Chennai	Fastest Line Follower Workshop By New Propeller Technology, Chennai	2 Days
2.	12.9.2019 & 13.9.2019	New Propeller Technologies R&D Pvt Ltd, Chennai	Design and Development of Robot	2 Days

## ACHIEVEMENTS

**1.EVENT DATE : 19.8.2019**  
**CONDUCTED BY: SRI SAIRAM ENGINEERING COLLEGE, CHENNAI**



**Prize Received By Hemalatha B & Team at Sri Sairam Engineering College**

S.No.	Name	Year & Dept.	Date	Event	College	Place Won
1.	Hemalatha B Keerthana A Mary Susma Rose	II Year ECE	19.8.2019	Line Follower	Sri Sairam Engineering College	II
2.	Hemalatha B Keerthana A Mary Susma Rose	II Year ECE	19.8.2019	Maze Solver	Sri Sairam Engineering College	III

**2.EVENT DATE : 13.9.2019 & 14.9.2019  
CONDUCTED BY: ROBOTICS CLUB OF VIT, CHENNAI,  
UNDER ROBOPRIX'19 2.0**



**1st Prize Won By Vikram Chandran & Team At Roboprix'19 2.0 Venue**

S.No.	Name with Year & Dept.	Date	Event	College	Place Won	Prize Amount
1.	(From II Year ECE): B.Vikram Chandran B.Vishal S.S.Sanjay Kumar S.Sulaiman (From II Year EEE): P.I.Govarthanan	13.09.19 & 14.09.19	Line Follower	VIT University, Chennai	II	Rs.3000/-
2.	(From III Year ECE): Vinoth N Sriram V Leo Robinson M A.V.K Tharun Sivapriya M (From II Year EEE): Jawahar Raghavendhran	13.09.19 & 14.09.19	Line Follower	VIT University, Chennai	III	Rs.2000/-

### 3.PARTICIPATION IN TECHNOXIAN-WRC (WORLD ROBOTICS CHAMPIONSHIP EVENT)

Event Date: September 23-25, 2019

Conducted By: AICRA (All India Council for Robotics & Automation)

Place: New Delhi

No. of Students Participated: 12 Students from II Year ECE and III Year ECE

Achievement: Shortlisted for Round I in Technoxian-WRC





**II YEAR AND III YEAR ECE ROBO CLUB MEMBERS AT TECHNOXIAN (WRC),  
NEW DELHI**

**ACADEMIC YEAR 2019-2020  
(SCHOOL EVENT ORGANIZED)**

**NATIONAL LEVEL ROBOTIC COMPETITION " St. JOSEPH'S BOT'19"**

Date of Event: **10/10/2019**

Venue: **AV HALL-I ADMIN BLOCK, TECHNOLOGY**

Sponsoring Agency: **Nil**

**Banner Photo:**



## Inaugural Function Details with photos:



### Guests Invited:

1. **Mr. M.K. Swaminathan**, Founder and CEO, AROBOT, Chennai
2. **Mr. Balaji Varathan**, Business Development Advisor, Propeller Technologies, Chennai
3. **Mr. Marisami**, Technical Mentor, Propeller Technologies, Chennai

### Event Details:

The **St. Joseph's Robo Club** of St. Joseph's Institute of Technology, Chennai has organized the “**National Level Robotic Competition – St. Joseph's BOT '19**” on 10<sup>th</sup> October 2019 for school students from 8<sup>th</sup> to 12<sup>th</sup> and for College students. The blissful day started with registration, a total of 123 students from 22 Schools and 6 colleges registered and enthusiastically participated in the all the events. **Mr. M. K. Swaminathan, Founder and CEO AROBOT**, Chennai was the Chief Guest for the function and inaugurated the event. The event was presided over by **Mrs. B. Jessie Priya, Managing Director**, St. Joseph's Group of Institutions, and **Dr.P.Ravichandran, Principal**, St. Joseph's Institute of Technology. The ceremonial lighting of Kuthuvilaku to invoke divine blessings was done by the Chief Guest other dignitaries on the dias. Then followed the presentation of memento to the Chief Guest as a token of recognition by our Principal **Dr.P.Ravichandran**. Chief Guest delivered a thought provoking address on “How to pursue your dreams” that ignited young minds & vibrant Engineers. The inauguration was concluded with Vote of Thanks.

**No of participants:**123 Students

**No of schools who participated:** Schools-22, Colleges-6

The various phases of the competition include the competitive events and the project demonstration. In project demonstration our Robo Club members displayed their innovative projects and explained the working and the design to the school students to instill the spirit of innovation and design methodologies. The competitive events in which the students participated are as follows.



## 1. Follow it!



The track is designed such that the robot must follow the black line. The students designed their bot by using Arduino and motor driver. The teams are selected based on minimum time taken by the bot to complete track. The event is proved to be successful one.

## 2. Sense Through !



The school students came with Arduino based efficient autonomous maze solver robot. The sensors used in their bot were IR sensor module or pullalo array sensor which was the most innovative one. The teams were selected based how far robot solved the maze and reach the other end in least time.

## 3. Robotics Applications!

This event had been a platform for the college students to showcase their skills in product design and applications.



**Total expenses incurred for St. Joseph's BOT'19 event is Rs. 36, 914/-**

Prize Value :

I Prize – Rs. 5000/-

II Prize – Rs.3000/-

III Prize – Rs. 2000/-



### **Group Photo**

