

ROBOWARS COMPETITION, VISTAAR 2019 (Venkateswara Initiatives in Science Training in Academics and Research) (01st November 2019)

TEACHER'S ACTIVITY REPORT 2019-2020

FACULTY: SCIENCE **DEPARTMENT:** ELECTRONICS **IQAC ACTIVITY No:** SVC/2019-20/ELECT/NK/4

NAME OF THE ACTIVITY: ROBOWARS COMPETITION, VISTAAR 2019 (Venkateswara Initiatives in Science Training in Academics and Research)

DATE	FACULTY	DEPARTMENT/COMMITTEE	COORDINATOR NAME
01 st November 2019	Science	Electronics	Dr Neeru Kumar, Dr J Lalita, Dr Rakhi Narang, Dr Neha Verma, Mr Hari Singh, Ms Shubhra Gupta, Dr Neetu Prasad
TIME	VENUE	NUMBER OF PARTICIPANTS	NATURE: Outdoor/Indoor
11:00 AM-01:00 PM	FOYER, SVC	25 (Robowars)	Outdoor
SUPPORT/ASSISTANCE:	CTEP Scheme of the Department of Biotechnology, Govt. of India, Sri Venkateswara College		

BRIEF INFORMATION ABOUT THE ACTIVITY (CRITERION NO. – III,V, VII):

TOPIC/SUBJECT OF THE ACTIVITY	Robowars Competition and participation in Green Technology Stall and Do it Yourself (DIY) Lab in VISTAAR 2019
OBJECTIVES	<p>To showcase science and technology in an event “One Day Popularization of Science” under CTEP Scheme of the Department of Biotechnology, Govt. of India, organised by College where many schools participated.</p> <ul style="list-style-type: none"> To increase the interest of students in Robotics and to develop an interest in coding.
METHODOLOGY	Activity
OUTCOMES	<ul style="list-style-type: none"> Robowars: It was launched as a pre-competition in different schools across Delhi-NCR. The theme of the competition was based on designing a “Line follower” robot. In all 12 different schools having 17 teams comprising of 2-3 students each registered after the pre-event announcement. A total of 25 participants (from nine teams) competed in the three rounds. Do it Yourself (DIY) Lab: Experiments provided deep insight into some basic concepts of science. Interdisciplinary experiments, simple enough to be performed at home, were demonstrated and students carried the finished product home Green Technology Stall: The stall gave insights to the visiting students into various upcoming fields in Science and Technology. Within the stall a variety of activities were conducted ranging from static posters representative of the theme with associated demonstrations of the Green House Model.

PROOFS & DOCUMENTS ATTACHED (Tick mark the proofs attached):

Notice & Letters ✓	Student list of participation	Activity report ✓	Photos ✓	Feedback form
Feedback analysis	News clip with details	Certificate	Any other	

IQAC Document No:	Criterion No: III,V , VII	Metric No:
Departmental file No:	IQAC file No:	

NAME OF TEACHER & SIGNATURE	NAME OF HEAD/ COMMITTEE INCHARGE & SIGNATURE	IQAC COORDINATOR (SEAL & SIGNATURE)
Dr. Neeru Kumar	Dr. Neeru Kumar	

For Reference

Criterion I	Curricular Aspects (planning & Implementation)	Criterion V	Student Support & Progression
Criterion II	Teaching Learning & Evaluation	Criterion VI	Governance
Criterion III	Research, Innovations & Extension	Criterion VII	Institutional Values & Best Practices
Criterion IV	Learning Resources and Infrastructure		

PROOFS

SUMMARY REPORT & PHOTOS


VISTAAR (Venkateswara Initiatives in Science Training in Academics And Research) was an initiative taken by Sri Venkateswara College to popularize the prospects of science and research in students, and to encourage young researchers. Sponsored by the Department of Biotechnology (DBT-CTEP, Govt. of India) the event was organized on 1st November 2019. The Department of Electronics participated in VISTAAR as a constituent science department with our teams in 'Do It Yourself experiments', 'Green Technology Stalls' and department exclusive event 'Robowars'.



ROBOWARS

To increase the interest of students in robotics and to develop an interest in coding, Robowar was organized which involved line following robots based on IR sensors. The competition had 3 rounds on a knockout basis. Each team had built a robot from their own thinking and creativity. The competition saw various kinds of rounds with different numbers of sensors used, as per the guidelines. The event saw very tough competition with each team trying to give their best.



GREEN TECHNOLOGY STALL

The green technology stall, a venture of many departments, had many teams showcasing different projects highlighting the developments in infrastructure, smart cities and food production. One such model was the 'Vision of Delhi 2020 Prototype'. The prototype explained how Delhi could include modern changes such as solar rooftops, aluminized roads for sustainable energy generation. The buildings in the model had green verticals and smart waste incinerators were installed along with a central waste set up in the city. Apart from the model there was a poster representing two possibilities for our future: one green and fertile and the other showed lifeless and dead Delhi. One of the highlights of the event was 'The Intelligent Greenhouse'. It was a smart and sustainable model utilizing the greenhouse effect. The model eliminated human labor and could nourish plants by itself. It had four types of sensor installed.

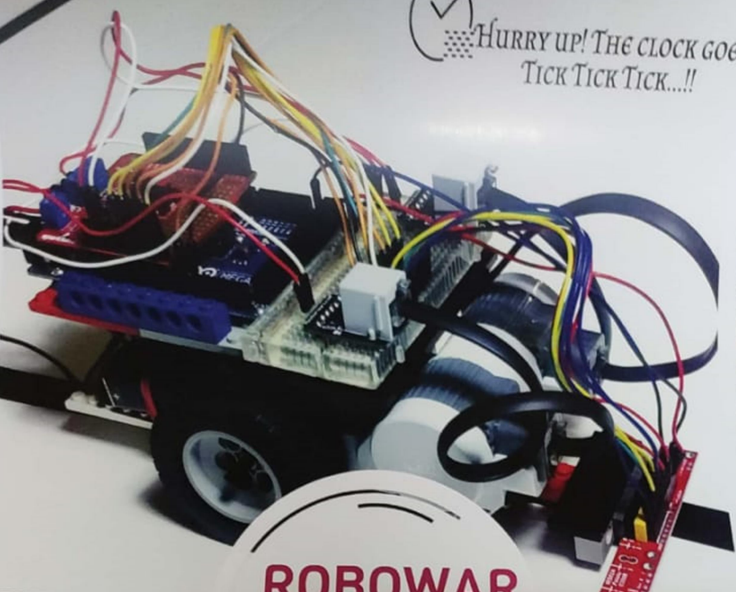


DIY EXPERIMENTS

It was an event organized to develop critical thinking and aptitude for science experiments in school students. A team of 5 school students and 2 volunteers worked on multiple experiments such as lava lamp, DNA isolation, etc. The event kicked off with a lecture on the importance of science in daily life and the requirement of science aptitude in young minds. The teams worked on different projects covering almost all subjects of Science.



POSTER



HURRY UP! THE CLOCK GOES
TICK TICK TICK...!!


**ROBOWAR
2019**
Can your bot make it to the finish line....


THERE ARE AN ENDLESS
NUMBER OF THINGS TO
DISCOVER ABOUT
ROBOTICS.
A LOT OF IT IS JUST TOO
FANTASTIC FOR PEOPLE TO
BELIEVE.


15
TEAMS

3
ROUNDS

1
TOP SPOT

 **VISTAAR, 2019**
Sri Venkateswara College

 **FOYER**
11 am - 1 pm
1st November 2019

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Shri D. Venkat Ramana
A.O(I/C)

This is to certify that the Activity report (Teacher/Department /Society/Association)
has been submitted for documentation to IQAC, Sri Venkateswara College,
University of Delhi.

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