



**G. Narayanamma Institute of Technology  
and Science(for women)**  
Shaikpet Rd, Hyderabad, Telangana 500104

Department of Electronics and Communication Engg.  
AY:19-20

**Report on One-Week workshop on Robotics Powered with ROS, in association  
with IETE & SmartBridge**

**Name of the program :** Robotics Powered with ROS

**Date :** 25-05-20 to 30-05-20

**Venue:** ONLINE

**Description :** The objectives of the workshop is to make the participants familiar with Robotic Operating System (ROS) and explain how robots can be simulated. Also different tools like Gazebo, Rviz and various sensors connection were explained.

**Day1: Report on ROS**

**Day2: Introduction to ROS and ROS cheat sheet**

**Day3: ROS topics, services**

**Day4: Introduction to Rviz and Gazebo simulator**

**Day5: Building two wheeled Robot**

**Day6: Integrating two wheeled Robot with LDS sensor**

- Outcomes:**
1. Basics of ROS were discussed in the workshop.
  2. Participants were able to develop hands-on problems in Robotic Operating System.
  3. Participants were able to give ideas of different real time problem that can be simulated in ROS.

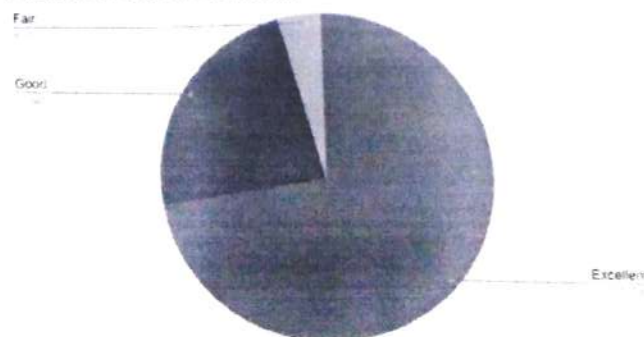
**Speaker details:**

Name: Durga Prasad, Robotics Engineer, Smartbridge,

**Number of participants/students benefited:** 53 Participants attended & given Excellent Feedback

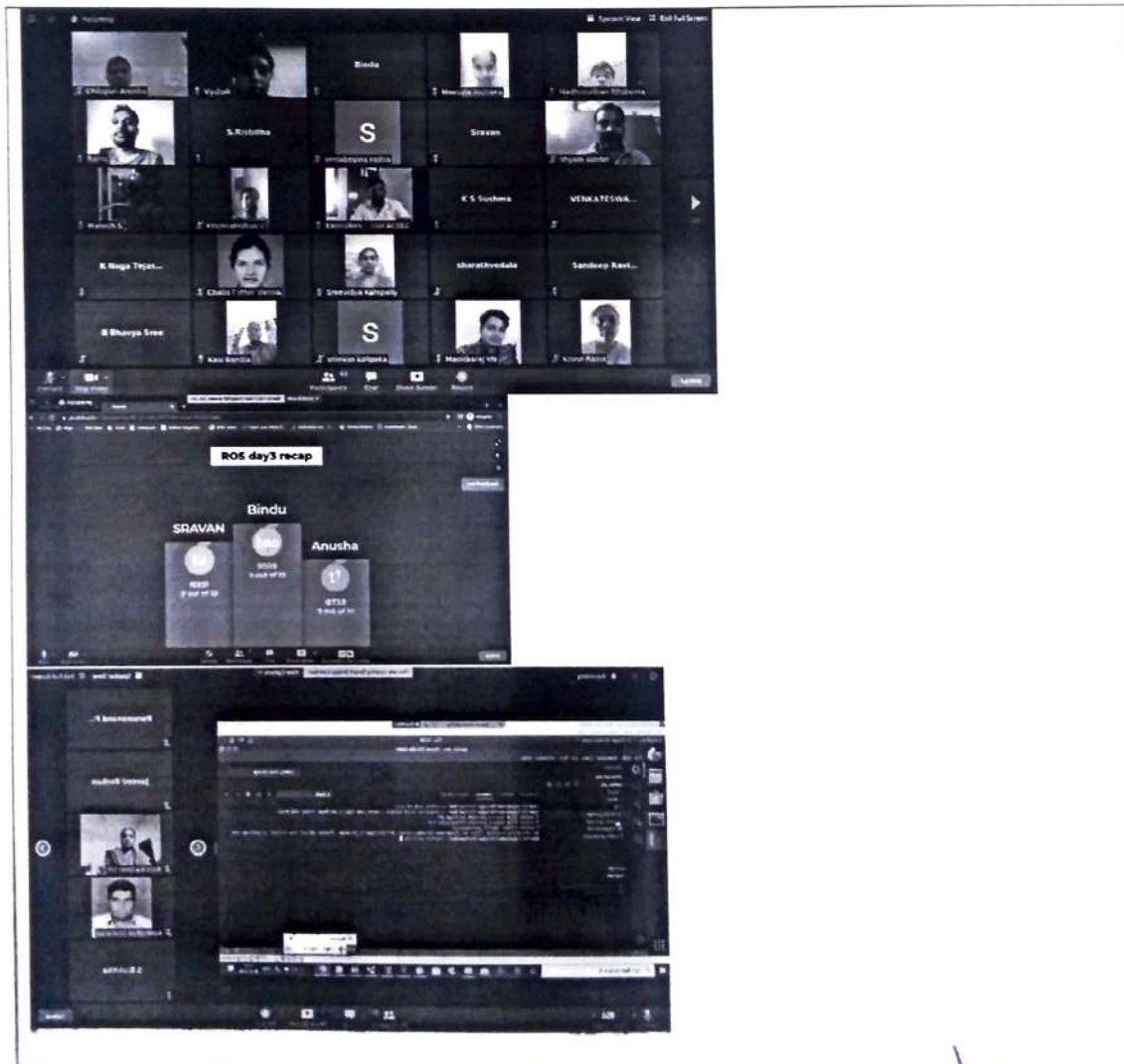
Overall feedback was taken and feedback was analyzed(enclosed), all the participants expressed that the sessions were very good.

Analysis of over all Feedback



Best Part of Training	Feedback	Suggestions
Having more of practical sessions is the best part	Excellent	None
Robotics Creation using ros	Excellent	Excellent informative session on robotics
ROS Practical sessions	Excellent	NA
Gazebo simulation	Excellent	None
Practical	Excellent	Excellent
Excellent Session	Excellent	Excellent Session
Ros quiz	Excellent	Good
Robot Simulation	Excellent	Provide some handout or ppt for that sessions
Practicle sessions	Good	Record and share few videos on making of small robot under different scenarios
Each and every part in training is nice and very useful	Excellent	No
The hands-on session was just fabulous and the quiz included was actually so good.	Excellent	Everything was very good. We would like to have more sessions of this kind.
Good presentation	Good	Good presentation
Everything	Excellent	Offline class gives more intrest to us compared to inline class
Giving practical knowledge in a simple and easy way.	Excellent	Teaching level is perfect and I don't think anyone can teach like you.keep going on sir.
The way of teaching , hands-on sessions and daily quizzes	Good	Nothing
Hands on session	Excellent	Thank you
The quiz and the hands on sessions were amazing.	Excellent	We would like to have more sessions of this kind.
All 5 days	Excellent	NA
Yes	Excellent	No
Everything	Excellent	Nothing for now
Hands on	Good	Nice Experience
Nice presentation nice practice	Excellent	Learnt a lot
Design part	Good	Overall good
Practical oriented session	Good	Very Informative Session
N	Fair	Ok
Practical experience	Excellent	Workshop could have been extended and hardware established could have been introduced thereotically
Project training	Good	This has to be reached to many people
Practical way	Excellent	Good going
Practical sessions	Excellent	Need more practical sessions
Ros	Excellent	Excellent
All the sessions	Excellent	Very nicely conducted.
Doubts were cleared then and there	Good	No suggestions
Practical session	Excellent	Very informative session
PRACTIACALS WERE AMAZING EXAMPLES BY SMARTBRIDGE	Excellent	THE COURSE CAN BE TAKEN TO STUDENTS FOR DESIGN AND DEVELOPMENT OF EMBEDDED BASED/ ROBOTICS PRODUCTS WHICH ARE VERY REQUIREMENT IN CURRENT SITUATION THAT IS 'COVID-19' SCENARIO WHICH WILL REPLACE MUCH HUMAN INVOMEVMENT. (SECURITY/ MEDICAL/ DEFENCE) BASED PROJECTS. THANKYOU.

Very good resource persons	Excellent	No comments
Very good resource persons	Excellent	No comments
Informative and Interactive	Good	2-3 more sessions might help us in understanding the course much better.
Introduction	Fair	Offline would have been better
Ros with practical	Good	Yes it is very useful thank you sir
Yesterday and today practical visualization	Good	Good session but we need more time to practice and get familiar
Yes	Excellent	No
Robot Simulation	Excellent	Provide some handout or ppt for that sessions
Hands on	Excellent	Good Workshop
Practicals	Excellent	No
Hands on training and the faculty. Kahoot game	Excellent	Nil
Hands on	Excellent	FDP on IoT
Design	Excellent	Nil



*Remuka*  
4/6/20  
Dr. Remuka Devi S M  
Co-ordinator

*B Venkateshulu*  
4/6/20  
Dr. B Venkateshulu  
HOD, ECE