

FACULTY OF ENGINEERING & TECHNOLOGY (CO-EDUCATION) DEPARTMENT OF MECHANICAL ENGINEERING

REPORT ON

Technical Event: **organized by department of Mechanical engineering**

EVENT:"ROBO RACE".

1. TITLE: ROBO RACE

2. Preamble: ROBO RACE a robot vehicle race competition was conducted on 14/06/2025. This event was conducted to enhance the competitiveness and technical skills among the undergraduate students about automation and robotics, to develop the controlling skills.

3. Participant's information: The students of all Engineering branches of all the semesters were invited

4. Description about the ROBO RACE EVENT:

World of automation and robotics is one of the major sector in the present industry. Its is hence very important to enhance the skill levels in the automation and robotics level. Here "ROBO RACE" is challenging event were it tests the level of vehicle design, automation and, controlling the movement.

Invitation : ROBO RACE EVENT was invited under the banner of Technical cum cultural event "AVIRAT 2025" invitations were sent through mails, through digital media, and personally visited to colleges and students of different semesters and departments were invited.

On the Event Day: 14/06/2025

In the inaugural function: Host Sri Prakash patil welcomed all the dignitaries, Dr. Anilkumar Bidve, honorable vice chancellor, Sharnbasva university kalaburagi along with invited jury member Sri Shivkumar, head Sankalp irrigation systems kalaburagi, Dr. S G Dollegoudar, Registrar Sharanbasva University kalaburagi, Dr Shivkumar Jawaligi, Dean, Faculty of Engineering and technology, Chairman of mechanical engineering department Dr. Sharn Shegedar, and event co-ordinator Sri Susheel kumar bijapure inaugurated the event, initially by ribbon cutting and light lamping. A robot vehicle made by students was placed on track and by using the remote controlled the vehicle was first operated by Dr. Anilkumar Bidve, Sri Shivkumar, and all other dignitaries.

After inauguration Sri. Susheelkumar Bijapure, Asst. Professor, Dept. of Mechanical Engineering (Co-Education) introduced the jury member to the gathering. The jury member was felicitated by Dr. Anilkumar bidve honorable vice chancellor Sharnbava university, and Chairman of the department felicitated Dr. AnilKumar Bidve, and felicitation to all the dignitaries was done.

About jury:

Sri Shivkumar is a passionate Entrepreneur having years of experience in industry and academia. He is the proud owner of sankalp irrigation systems, it started as a trading of agriculture implements , pipes and services in 1991, with this profound knowledge they started as a own manufacturing HDPR pipes, Drip irrigation laterals, sprinkler pipes etc, now they supply to various dealers accros Karnataka, telengana and Maharashtra, with the great minds involved, sri shivkumar sir is a visionary entrepreneur who has built a successful business from the ground up, His perseverance and hard work have been key to his success, sir also have very much interest in socio reform activities and also be in the front line for helping any such events.

About Event:

“ROBO RACE-Race your bot to win” is a thrilling competition where participants design and program robots to navigate a challenging track filled with obstacles. Combining engineering, innovation, and strategy, this event tests the speed, agility, and precision of robots in a race to the finish line. The race tracks often include various obstacles like switch bridges, speed breakers, and ramps, designed to challenge the robots and their operators.

Around 83 students with 24 teams participated for the event from various colleges and departments. The track was designed as “SUK” and the Robot was placed at the start line. The robot starts to move and then the timer starts. Robots crossed through all the obstacles placed on the track, If robot is off track then, the robot ha to be started from the previous check point. The timer will stop as soon as the robot crosses the finish line.

Robo race event started at 11:30 am and ended at 4:30pm on 14/06/2025 with a lunch break of 1hour in between. Students had participated with full of joy and enjoyed the event in every race of the BOT on the track, there was a 2 minute technical time break if any BOT had a technical issue. After each robot vehicle passed the timing was noted, one team disqualified due to Robot vehicle failure. Maximum time noted was 5minutes 20sec and Minimum time noted was 1 minute and 20sec declared as the winner of the event by jury member.

EVENT RESULT:

WINNER – ROBO RANGERS (Harshal patel, Shaik Dawood, Omer Patel, Syed Sohail of Faculty of engineering and technology, Sharnbasva University, kalaburagi).

RUNNER: BITS AND BOTS (Sukesh yadwad Hanmanth Vijay kumar, Mahantesh patil of Shetty institute of technology, Kalaburagi)



Picture 1: Invitations to all colleges by faculty members and students



Picture 2- inaugural function: Dr. Anilkumar Bidve, honorable vice chancellor, Sharnbasva university kalaburagi along Sri Shivkumar, head Sankalp irrigation systems kalaburagi, Dr. S G Dollegoudar, Registrar Sharanbasva Univesity kalaburagi, Dr Shivkumar Jawaligi, Dean, Faculty of Engineering and technology, Chairman of mechanical engineering department Dr. Sharn Shegedar, and event co-ordinator Sri Susheel kumar bijapure



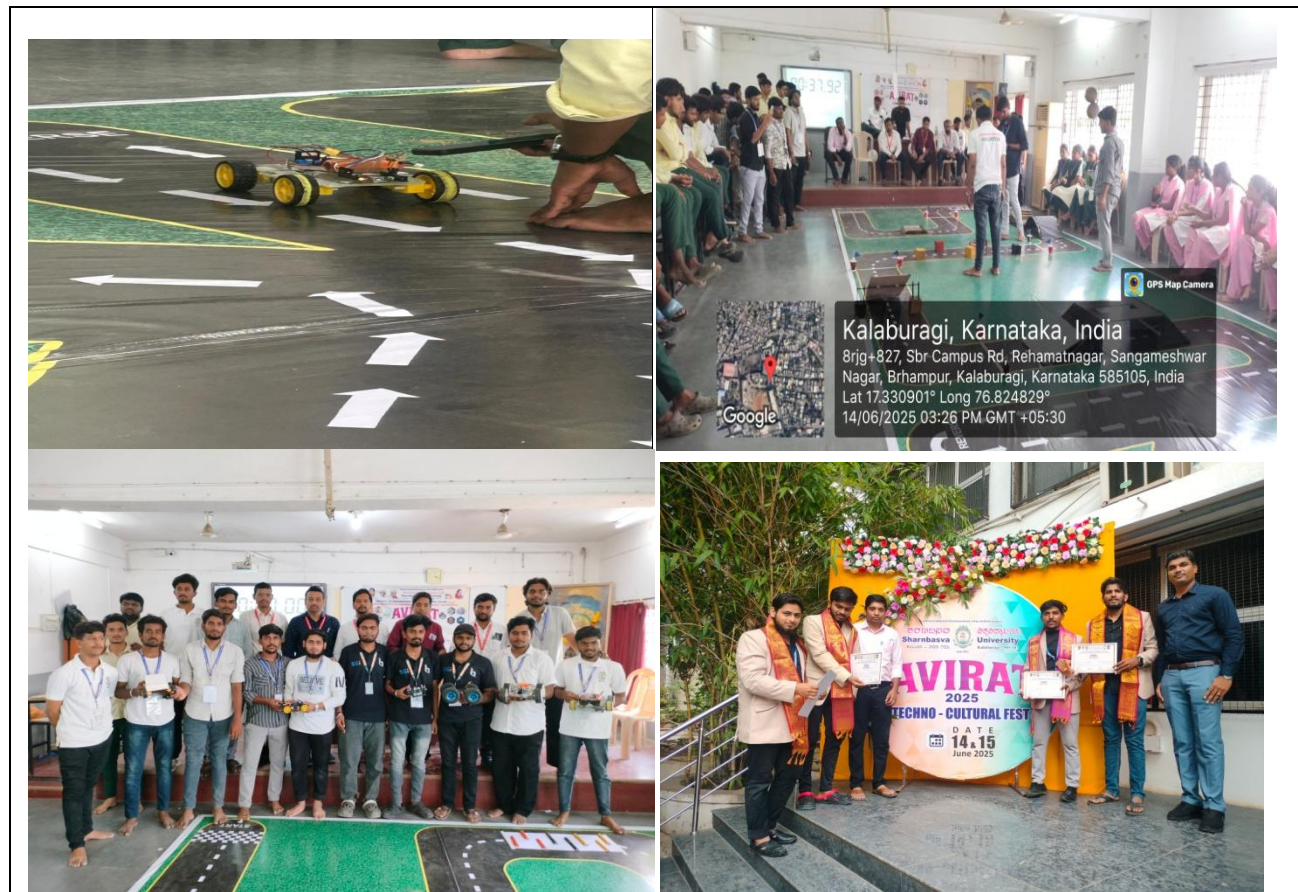
Picture 2- inaugural function: Lamp Lighting



Picture-3- Felicitation to the Jury member Sri Shivkumar by Dr. Anilkumar Bidve, honorable Vice chancellor, Sharnbasva university kalaburagi, and other dignitaries.



Figure-4- Conduct of ROBO RACE Event Competition



Picture 6- Conduct of ROBO RACE Event Competition and Winners

Event outcome: This event enables the students to apply the engineering knowledge for innovation, automation and design for the competitive world.

Impact of the Event: Department of Mechanical engineering as a organizer conducted a successful technical event, this event had given equal opportunity to every students to showcase their talent and knowledge they gained in the robot design, and control, they have enjoyed every moment of the event, gained knowledge on how to compete any event in speculated time, students cherished the moments while they were awarded with certificates and prize money.