



RajaRajeswari College of Engineering



(Approved by AICTE, New Delhi, Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi)
#14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru – 560074

Department of Artificial Intelligence & Machine Learning

Robotics workshop

Title of the event : Robotics Workshop

Resource Person: Roopa Mahadev, Accurate info solution

Date of the event: 27/12/2022 to 31/12/2022

Event Duration : 8:30am to 4:00pm

Venue : APJ Abdul Kalam Hall, RRCE

Target Participants: AI&ML 2nd year , 3rd year, 2nd year R &A and Mech

Overview of the Workshop:

The event started with the formal Inaugural function at 9.30a.m in Abdul Kalam Conference Hall. On the dais Our Chief Roopa Mahadev, Accurate info solution,- BENGALURU, Dr Balakrishna R Principal, RRCE, Dr. Amuthraj Vice Principal, RRCE. Dr. Rajesh K S HoD AI & ML. The function started with Invocation Song, followed by the welcome speech , followed by presidential address given by Principal, vice principal and Hod. Inspiring speech regarding the future opportunities for engineering students was given by Roopa Mahadev resource person ,. Vote of thanks was given by the student.

Day 1: Introduction about robots, Arduino boards, knowledge on microcontroller and Knowledge on microcontroller and different types of circuit boards. Connecting the parts of robots.

Day 2: Working on the software and hardware parts of robots. Working with coding part of traffic lights. Programing and coding for traffic lights with different settings. Working with Arduino boards

Day 3: Introduction of different parts of robots. Introducing wheel robots. Connecting the different parts in robots. Working with hardware. Programming and coding for the robots. Uploading the program and code to the robot working with the robot.

Day 4: Making to work the robot in different methods concept of data reading it.



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- Line robot.
- Working with the Square and triangle robot
- Circle robots.

Day 5: Projects on IOT connecting with robot.

Soil Moisture Sensor	Speed detector
Fire Detection	Smart Feeder
Air pollution	Visitor count
Gas leakage detection	Smart jar
Rainfall detection	Telegram controlled home automation
Sound Recording in decibel	Smart Street Light
Motion Sensor	Traffic Light
Bugler alarm	

Introducing the different type of circuit board with sensors and bazars. These are all connecting to circuit board with wires. Programming the done on software and uploaded to the circuit board..

Outcome of the program:

Outcome of the program is to provide information on various robots and coding; help students identify their interests and strengths; expose them to a diverse range of opportunities to build experience and clarity about their goals; and empower them to pursue internships, jobs, and leadership experiences they find personally meaningful.

HOD



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RAJARAJESWARI COLLEGE OF ENGINEERING,
BENGALURU-74

ARTIFICIAL INTELLIGENCE & MACHINE LEARNING



WORKSHOP ON ROBOTICS

Content :

- Introduction to Robots and Robotics
- Introduction to Arduino and its IDE
- Traffic light Signals using LED and Arduino coding
- Designing the Robot
- Obstacle avoider
- Line following robot

27/12/2022 to 31/12/2022

Coordinator:

Prof.Rashmi N K

Prof.Mahantesh S M

Dr. Rajesh K S

HOD



Resource Person

Mrs. Roopa Mahadeva
CEO, Accurate Info-Solution

Dr. R Balakrishna

Principal



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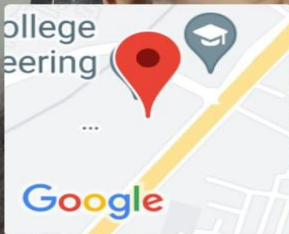
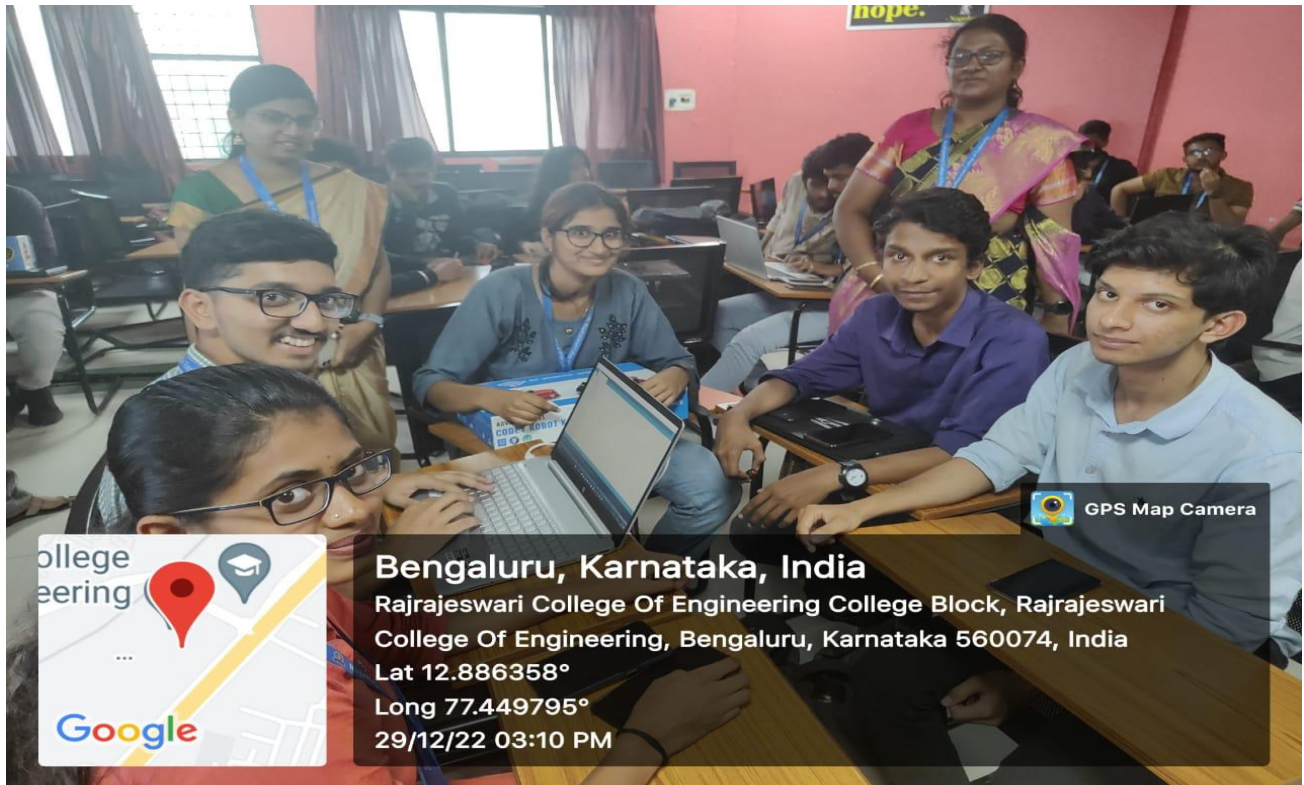


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