



MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST
Rajarajeswari College of Engineering
(An Autonomous Institution under Visvesvaraya Technological University, Belagavi)



Department of Robotics and Automation

Ref: RRCE/R&A/2025-26/Even/4th Sem

Date: 14/03/26

CIRCULAR

This is to inform all the students that a Technical Seminar on “SENSORS & ITS APPLICATIONS” will be conducted as per the following schedule.

Date: 17th March 2026 .

Time: 10.30 a.m to 12.30 p.m.

Venue: Aryabhata Seminar Hall, Department of R&A.

The seminar will provide valuable insights for bridging the gap between the physical world and digital systems, enabling the development of smarter, more efficient, and automated technologies. All students are instructed to attend the seminar without fail and make effective use of this learning opportunity, Students are requested to be present at the venue on time and maintain discipline throughout the session.

Manasa G
14/3
Coordinator

S. S. S. S.
14/03/2026
HoD-RA
Professor & Head
Dept. of Robotics and Automation Engg.
RajaRajeswari College of Engineering
Bengaluru-74.



Department of Robotics and Automation

Report on Technical Talk - “SENSORS & ITS APPLICATIONS”- 2025-26(Even)

1. Type Event : Technical Talk
2. Name & designation of resource person : Dr. Rangaiah L,
Professor & Dean- Academic, Dept. of ECE,
RRCE, Bengaluru.
3. Date of event : 17th March 2026
4. Time : 10:45 AM to 12:45 PM
5. Program Coordinator : Prof. Manasa G
Assistant Professor,
Department of Robotics and Automation,
Rajarajeswari College of Engineering,
Bengaluru-560074.
6. Semester :4th Semester Robotics and Automation
7. Summary of Programme :

The session covered-


- **Understand Sensor Fundamentals**
 - Explain what sensors are and how they convert physical parameters (temperature, distance, motion, light, etc.) into electrical signals.
 - Differentiate between analog and digital sensors.
- **Classify Different Types of Sensors**
 - Identify common sensors used in robotics such as:
 - Ultrasonic sensors
 - IR sensors
 - Temperature sensors
 - Proximity and vision sensors
- **Analyze Sensor Working Principles**
 - Describe how various sensors function (e.g., time-of-flight in ultrasonic sensors, light reflection in IR sensors).
- **Understand Sensor Integration in Robotics**
 - Explain how sensors are interfaced with microcontrollers (Arduino, Raspberry Pi, etc.).
 - Understand basic signal processing and data acquisition.
- **Apply Sensors in Real-World Robotics**
 - Recognize applications such as:
 - Obstacle avoidance robots
 - Line-following robots
 - Autonomous navigation systems
- **Career & Research Insight**
 - Identify opportunities in robotics, IoT, automation, and embedded systems involving sensor technologies Industrial automation and smart systems



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Department of Robotics and Automation




Rajarajeswari
College of Engineering
An Autonomous Institution

Under VTU, Approved by AICTE, UGC & GoK
No. 14, Ramohalli Cross, Kumbalagodu, Mysore Road, Bengaluru

DEPARTMENT OF ROBOTICS AND AUTOMATION

Technical Talk on
'SENSORS AND ITS APPLICATIONS'



Key Note Speaker:

Dr. Rangaiah L

Professor & Dean-Academics


Rajarajeswari College of Engineering, Bengaluru

17th MAR 2026 | 10:45 A.M - 12:45 P.M

Venue: Aryabhata Hall, RRCE Campus

Coordinator - Mrs. Manasa G, Assistant Professor,

CONTACT US

 9008845678

Dr. Satheesha V
HoD - R & A

Dr. R. Balakrishna
Principal

 www.rrce.org

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Phone: +91-80-28437124 / 28437375

Email Id: hodra@rrce.org

Website: <https://www.rrce.org>



Department of Robotics and Automation



Key speaker Prof. Dr. Rangaiah introduction to sensors



Department of Robotics and Automation



Lecturing to the students about the sensors & its applications in the field of robotics



Interaction with students for their queries



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Department of Robotics and Automation



Dr. Sateesha V, Hod & Prof. Manasa G presenting the token of gratitude to resource person Prof. Dr. Rangaiah L

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Campus: #14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru – 560074

Phone: +91-80-28437124 / 28437375

Email Id: hodra@rrce.org

Website: <https://www.rrce.org>



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Department of Robotics and Automation



Date: 14/3/26

Technical seminar on "SENSORS & ITS APPLICATIONS"

Attendance Sheet of 4th Sem Students

Sl. No.	USN	NAME OF THE STUDENT	SIGNATURE
1	1RR22RA022	SHASHANK N S	Shashank
2	1RR23RA022	MUTHUKRISHNAN V	Muthukrishnan
3	1RR24RA001	ABHILASH K M	Abhilash
4	1RR24RA002	AISHWARYA S	Aishwarya
5	1RR24RA003	AKASH S	AB
6	1RR24RA005	AMRUTHA P	Amrutha
7	1RR24RA007	CHANDANA L	Chandana
8	1RR24RA008	CHANDU PRAKASH REDDY V S	Chandu
9	1RR24RA010	DEEPTHI R	Deepthi
10	1RR24RA012	GOWTHAM K M	Gowtham
11	1RR24RA013	HARSHITHA T R	Harshitha
12	1RR24RA014	KUSHAL H	Kushal
13	1RR24RA015	M.S NITHYA SHREE	Nithya
14	1RR24RA016	MEGHA CR	Megha
15	1RR24RA017	MOHAMMED FAHEEM KHAN	AB
16	1RR24RA018	MOHAMMED FARAZ	Faraz
17	1RR24RA021	PAVAN REDDY D R	P Reddy
18	1RR24RA022	PRANEETH S	Praneeth
19	1RR24RA023	PRAVEEN CV	AB
20	1RR24RA024	RISHIGIRISH	Rishi
21	1RR24RA025	RUSHANK TR	Rushank
22	1RR24RA027	SHAMEEM UNNISA	Shameem
23	1RR24RA028	SHREYAS H L	Shreyas
24	1RR24RA030	SPANDANA D M	Spandana D.M



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25	1RR24RA031	SUHAS V	<i>Suhas V</i>
26	1RR24RA032	SUSHIL KUMAR M	<i>-NCC-</i>
27	1RR24RA034	UJWALA M C	<i>Ujwala M.C.</i>
28	1RR24RA035	VAISHNAVI K R	<i>Varshana</i>
29	1RR25RA400	HRUDAY KRISHNA	<i>HR</i>
30	1RR25RA401	KIRAN H M	<i>Kiran</i>
31	1RR25RA402	M TEJAS SHARMA	<i>Tejas Sharma</i>
32	1RR25RA403	K NANDAN KUMAR	<i>K Nandan</i>
33	1RR25RA404	NITHIN K A	<i>Nithin K.A</i>
34	1RR25RA405	P NAGANANDA SHARMA	<i>Naga</i>
35	1RR25RA406	PRABHATH R	<i>Prabhat</i>

Manasa G
17/3

Sethuraj
Professor & Head 17/03/2026
Dept. of Robotics and Automation Engg
RajaRajeswari College of Engineering
Bengaluru-74.