



# PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

ADB Road, Surampalem, Near Peddapuram, Kakinada.Dist., A.P. – 533 437

(Approved by AICTE, Permanently Affiliated to JNTUK Kakinada & Accredited by NAAC with A+ Grade)

(Recognized by UGC Under Sections 2(f) and 12 (b) of UGC act, 1956)

Ph: 08852 – 252233, 252234, 252235 Fax: 08852 – 252232, website:www.pragati.ac.in

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## DEPARTMENT OF MECHANICAL ENGINEERING

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### SEMINAR REPORT ON ROBOTS IN SURVEILLANCE

Dt: 23.12.2025

The Robotics Club organized a technical seminar titled “Robots in Surveillance” for the 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> Year Mechanical Engineering students on 19.12.2025 with the objective of enhancing their understanding of advanced robotic technologies and their practical applications in the field of surveillance. The seminar provided an overview of the evolution of surveillance systems from conventional methods to modern robotic solutions enabled by automation, sensor technology, and intelligent control systems. The Faculty Coordinator explained the fundamental concepts, design considerations, and working principles of surveillance robots, emphasizing the integration of mechanical structures, sensing devices, control units, communication systems, and power sources.

The seminar also highlighted various types of surveillance robots, including ground-based robots for defense and industrial monitoring, aerial robots for traffic control and crowd surveillance, and underwater robots for security and inspection in marine environments. Detailed discussion was conducted on the mechanical aspects of robot design, such as chassis configuration, mobility mechanisms, material selection, and stability, underscoring the significant role of mechanical engineers in developing efficient and reliable robotic systems. The applications of surveillance robots in defense, public safety, disaster management, industrial inspection, and environmental monitoring were presented, along with their advantages, including enhanced safety, continuous operation, and improved monitoring efficiency. The limitations of surveillance robots, such as high implementation costs, dependence on power and communication networks, and maintenance requirements, were also addressed.

The seminar concluded with an interactive discussion session that encouraged student participation and clarified technical queries. Overall, the seminar proved to be informative and academically enriching, providing valuable insights into the importance of surveillance robotics and motivating 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> Year Mechanical Engineering students to pursue further learning and innovation in the field of robotics and automation.



Learning is Supreme Duty

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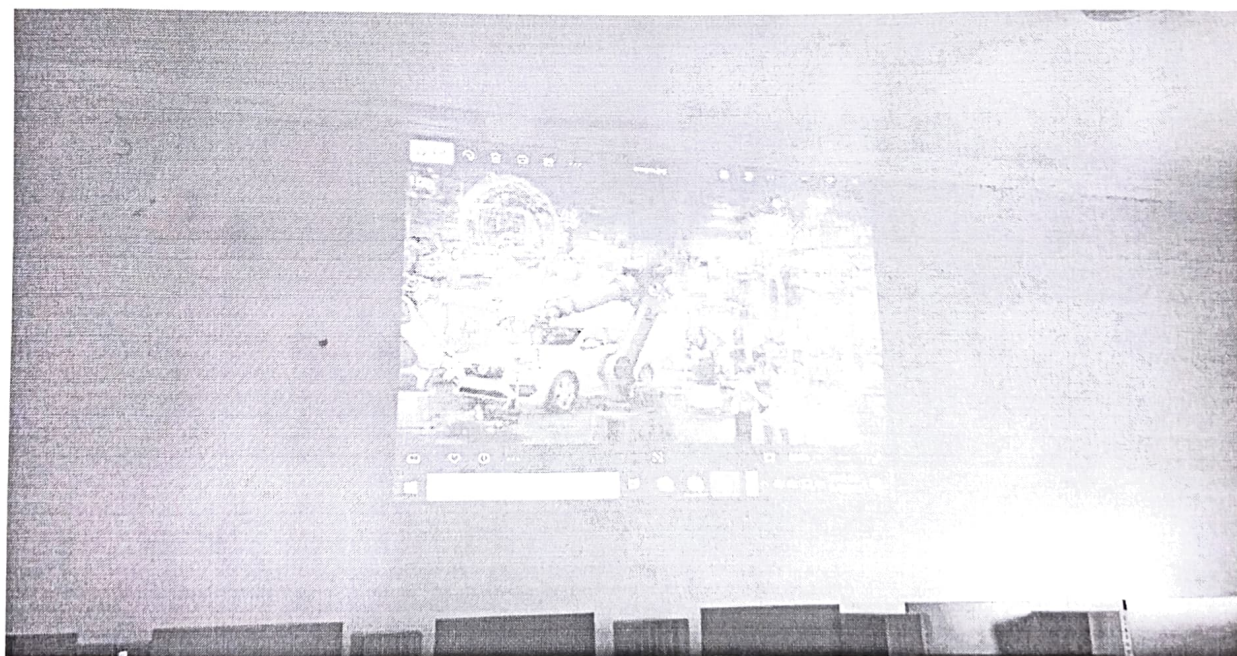
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## DEPARTMENT OF MECHANICAL ENGINEERING



H.O.D. 

Faculty Coordinator

  
HOD-ME







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## DEPARTMENT OF MECHANICAL ENGINEERING

### Students Participation List

Dt. 23.12.2025

S.No	Roll No	Name of the Student	Signature
1	24A31A0301	Chikkam Jnana Maha Lakshmi Deepika	C.H. Deepika
2	24A31A0307	Kottala Rama Hasini	K.Rama Hasini
3	24A31A0316	Chitturi Rakesh	CH. Rakesh
4	24A31A0319	Kuppala Devi Sree Sivanand Ram Sai Varun	K.D.S.S.R.S. Varun
5	24A31A0339	Malladi Praveen	M. Praveen
6	24A31A0344	Mutyala Indraneel Kumar	M. INDRANEEL
7	24A31A0357	Vadaparthi Sivaramcharan	V. sivaramcharan
8	25A35A0307	Penaganti Akshay	P. Akshay
9	23A31A0303	Nagireddy Swapna	N. Swapna
10	23A31A0310	Atchirithi Lohith Durga Nooka Rajesh	A. L. Durga Rajesh
11	23A31A0320	Gandham Veerasai Subrahmanyam	G.V. Subrahmanyam
12	23A31A0332	Nagasuri Yaswanth	N. Yaswanth
13	23A31A0338	Pilla Veeranaga Venkatasiva	P.V. Venkatesh
14	23A31A0345	Sadanala Sivasai	S. Sivasai
15	24A35A0303	Douduri Divakar	D. Divakar
16	24A35A0307	Mandahari Bala Bhavani Shankar	M.B.B. Shankar
17	24A35A0313	Saladi Manikanta	S. Manikanta
18	24A35A0317	Yallaboina Durga Venkata Siva Shankar	Y.D.V.S. Shankar
19	22A31A0302	Allampalli Venkata Tarun	A. Venkata Tarun
20	22A31A0308	Cheekatla Mahesh	CH. Mahesh
21	22A31A0318	Kaila Satya Prasadkumar	K.S. Prasadkumar
22	22A31A0324	Kolagani Shanmukh Sai	K. Shanmukh Sai



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23	22A31A0333	Mulakala Yadidya	M. Yadidya
24	22A31A0340	Seelam Venkata Sri Satya Mahesh	Mahesh
25	22A31A0345	Vanapalli Jyothsna Praveen	V.J. Praveen
26	22A31A0350	Aggala Giridhar Sai	Sai
27	22A31A0360	Gollapalli Veera Satya Subrahmanya Swamy	G.V.S. Swamy
28	22A31A0365	Karri Mohan Sai	K. Mohan Sai
29	22A31A0373	Miriyala Shanmukha Srinivas	Shannu
30	22A31A0384	Raja Vamsi Niranjan	Vamsi
31	22A31A0392	Tekumudi Lokesh	T. Lokesh
32	23A35A0305	Dolai Nitin Kumar	Dolai
33	23A35A0310	Ranghanadham S V V Satya Sai Ram	R.S.V.V. Satya Sai Ram
34	23A35A0313	Nallamilli Jnaneswari	N. Jnaneswari
35	23A35A0318	D Prasanth	D. Prasanth
36	23A35A0326	Mohammad Abdul Wahid	M. Wahid

Faculty Coordinator

HOD-ME

