



Seminar Report on

"Vehicle Dynamics & ADAS"

held on 08th April (Tuesday), 2025

The seminar on "Vehicle Dynamics & ADAS " brought together students, researchers, and faculty members to discuss and analyze the vehicle's motion and the forces acting upon it to develop effective ADAS. It was organized by the School of Mechanical Sciences in association with the SAEIIS MWC division. The speaker illustrated with examples like **ABS** (preventing wheel lock-up for steering and braking), **ESC** (mitigating skids), **ACC** (maintaining safe following distances), and **LKA** (lane keeping). These systems actively utilize vehicle dynamics principles to intervene and enhance safety. A total of 81 students from mechanical sciences, electrical sciences, and faculty members have attended and benefitted from the seminar.

The resource person for the seminar is Mr. Bhavan Kumar Ramamoorthy, Senior Manager – Suspension Design, Renault Nissan India, Chennai. One of the student coordinators Mr. Tabrez. M extended a warm welcome and introduced the speaker.

The resource person has given a wonderful presentation about the progress of ADAS, which relies on sophisticated vehicle dynamics modelling and accurate sensor data. The faculty coordinator, Dr. M.A. Sai Balaji, and SAEIIS MWC chairman, Mr. Vijaykumar, presented the memento to the resource person. Finally, the seminar concluded with the vote of thanks by the student coordinator Mr. Tabrez. M.

Seminar brochure



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School of Mechanical Sciences
In association with
SAEMWC division



April
08
2025

02.30 PM
to
03.30 PM



Topic:
Vehicle Dynamics & ADAS

Speaker



Mr. Bhavan Kumar Ramamoorthy
Senior Manager - Suspension Design
Renault-Nissan India,
Chennai.

Convenors

Dr. H. Siddhi Jailani, Dean - SMS
Dr. A.S. Selvakumar, Head - Mechanical
Dr. P.D. Jeyakumar, Head - Automobile

Coordinators

Dr. M.A. Sai Balaji, Asso. Professor / Mech
Dr. T.R. Tamilarasan, Asso. Professor / Auto



Seminar Hall, III Floor,
School of Mechanical Sciences Block,
BSA Crescent Institute of Science and Technology,
Vandalur, Chennai, Tamil Nadu

Seminar Photographs



Seminar Attendance

S-EINDIA
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Guest Lecture on Vehicle Dynamics & ADAS by School of Mechanical Sciences in Collaboration with SAEMWC Division – 08.04.2025 (2.30 – 3.30 PM)

Speaker Name: Mr. Bhavan Kumar Ramamoorthy
Senior Manager – Suspension Design
Renault-Nissan India, Chennai

Attendance Sheet

S. No.	RRN	Student Name	Department	Signature
1	22012160201	Binu Marikose	Auto	
2	220121601011	Vagheshwaran	AUTO	
3	220121601008	Sultan Mohideen.E	Automobile	
4	220121601003	M.H. Mohamed Ibrahim Sahib	AUTO	
5	230021601035	PRAVIN RATAN	MECHANICAL	
6	230121601000	TABREZ M	Automobile	
7	240021601021	A. JOEL JOYVIN	MECHANICAL	
8	240021601034	F. Mohamed Shahid	Mechanical	
9	240021601058	N.R. Yuvraj Kumar	MECHANICAL	
10	240021601033	MOHAMED RAFIL	MECHANICAL	
11	240021601009	Ahmed Shael. S	mechanical	
12	240021601015	K. Faizal abdulla	Mechanical	
13	240021601035	J. Mohamed Yusuf	Mechanical	
14	240021601051	S. Syed Afzan	MECHANICAL	
15	240021601036	MOHAMMED AARIB.T	MECHANICAL	
16	240021601060	Razeen. A	MECHANICAL	
17	241242601023	St. Immanuel	M.Tech VLSI	
18	241242601004	Tinothi	M.Tech VLSI	
19	241242601005	Keerthigla Bonus	M.Tech VLSI	
20	230041601013	Gutha Priya	B.Tech EEE	

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S. No.	RRN	Student Name	Department	Signature
21	230041601053	Vasanthi Ka	B.Tech EEE	
22	230041601041	Nairajman	B.Tech EEE	
23	220121601007	Sabitha Srikanday	B.Tech Auto	
24	240021601007	Afroued Ibrahim	B.Tech Mechanical	
25	240021601042	S. Palaniaman	B.Tech mechanical	
26	240021601029	A. MOHAMED FAZIL	B.Tech MECHANICAL	
27	240021601056	SHAJITH SHERIFF	B.Tech MECHANICAL	
28	240021601025	MITHULESH. D	B.Tech MECHANICAL	
29	240021601050	Shakir Ahmed Fehem	B.Tech Mechanical	
30	240021601043	S. PRAVEEN RAS	B.Tech Mechanical	
31	240021601047	Sanjay. H	B.Tech Mechanical	
32	240021601046	Sanjay charan	B.Tech Mechanical	
33	240021601042	Nisarg. J.P	B.Tech Mechanical	
34	240021601048	A. Sanathkumar	B.Tech Mechanical	
35	220051601035	Sai laksh. G	B.Tech ECE	
36	220051601053	Mallu Siddharthagoud	B.Tech ECE	
37	220051601059	Mohamed Ajmal. P	B.Tech ECE	
38	240021601006	Abdul Razaq K.H.	B.Tech Mech	
39	240021601031	MOHAMMED INSAAF. M	B.Tech Mech	
40	240021601002	ABDUR RAHMAN. M	B.Tech. Mech	
41	240021601001	AAMIL AHMED. S.	B.Tech Mech.	
42	240021601059	MOHAMED AADHIL. M	B.Tech Mech	
43	240021601026	MOHAMED ASIA KHAN	B.Tech Mech	
44	240021601010	AL FAZIM. M	B.Tech MECH	

S. No.	RRN	Student Name	Department	Signature
45	240021601049	S. Shahid Fayaz	B.Tech Mechanical	S. Shahid
46	240021601053	MOHAMED SHARAB	B.TECH MECHANICAL	Shahid
47	240131601009	THOUFIQ K	B.Tech POLYMER	Thoufiq
48	240131601002	FAHIM SHARUK S	B.Tech POLYMER	Fahim
49	240131601017	NARESH KUMAR K	B.Tech POLYMER	Naresh
50	240021601065	SHAKEEL AHMED	B.Tech MECHANICAL	Shakeel
51	240021601052	SYED HAZIQ E	B.Tech MECHANICAL	Syed
52	240021601012	AVINASH P	B.Tech MECHANICAL	Avinash
53	240021601023	Kaarthikeyan	B.Tech Mechanical	S. D. Kaarthikeyan
54	240021601017	E. GOKUL	B.Tech mechanical	E. Gokul
55	240021601018	L. Hemnath.	B.Tech Mechanical	L. Hemnath
56	240021601019	L. G. F. HRITHIK	B.TECH MECHANICAL	L. G. F. Hrithik
57	240021601032	M. Mohamad Mufed	B.Tech Mechanical	M. Mufed
58	240021601064	T.S. Rogil	B.TECH Mechanical	T.S. Rogil
59	240021601024	H. KADHAR OLI	B.Tech Mechanical	H. Kadhar Oli
60	240021601041	M. NIRAJ MASA	B.Tech Mechanical	M. Niraj Masa
61	240021601013	David Michael Robert. R	B.Tech Mechanical	David Michael Robert. R
62	240021601004	A. Abdul Rahman	B.tech mechanical	A. Abdul Rahman
63	240021601045	P. Sam Priyan	B.tech Mechanical	P. Sam Priyan
64	240021601027	Mohamed Ameen. A	B.Tech Mechanical	Mohamed Ameen. A
65	240021601005	ABDUL REFAI	B.Tech Mech	Abdul Refai
66	240021601040	Mukesh J	B.Tech Mech	Mukesh J
67	240021601038	Sufiyan.	B.Tech Mech	Sufiyan.
68	240021601003	Abedul Hafeez S.K	B. Tech Mech	Abedul Hafeez

S. No.	RRN	Student Name	Department	Signature
69	240021601061	S. Syed Adil Mohamed	B.Tech Mech Eng	Syed
70	230021601054	S. Yesuvarath Shanaka	B.tech EEE	Yesuvarath
71	230041601021	P. Kaushtik	B.tech EEE	P. Kaushtik
72	240131601015	G. Hariharan	B.tech polymer	G. Hariharan
73	240131601014	G. VIKASINI S	B.Tech Polymr	G. VIKASINI S
74	240131601010	^{SKT} VARSINI - B	B.Tech Polymer	B. Sivar
75	240131601011	[^] SRIVARSHAN. B	B Tech Polymer	R. Sivar
76	240131601003	KIRTHIKA. B	B.Tech Polymer	Kirthika B.
77	240131601008	K.A. Vijaya Vignesh	B.Tech (polymer)	K.A. Vijaya Vignesh
78	240131601007	Priyan, Sneha	B. Tech (Polymer)	Priyan.
79	240131601005	Sr. Arun	B. Tech (Polymer)	Sr. Arun
80	240131601013	Bala Musuvan	B.Tech (Polymer)	Bala
81	240131601001	Adi Narayanan	B.Tech (polymer)	Adi Narayanan