

## **REPORT: EXPERT LECTURES SERIES**

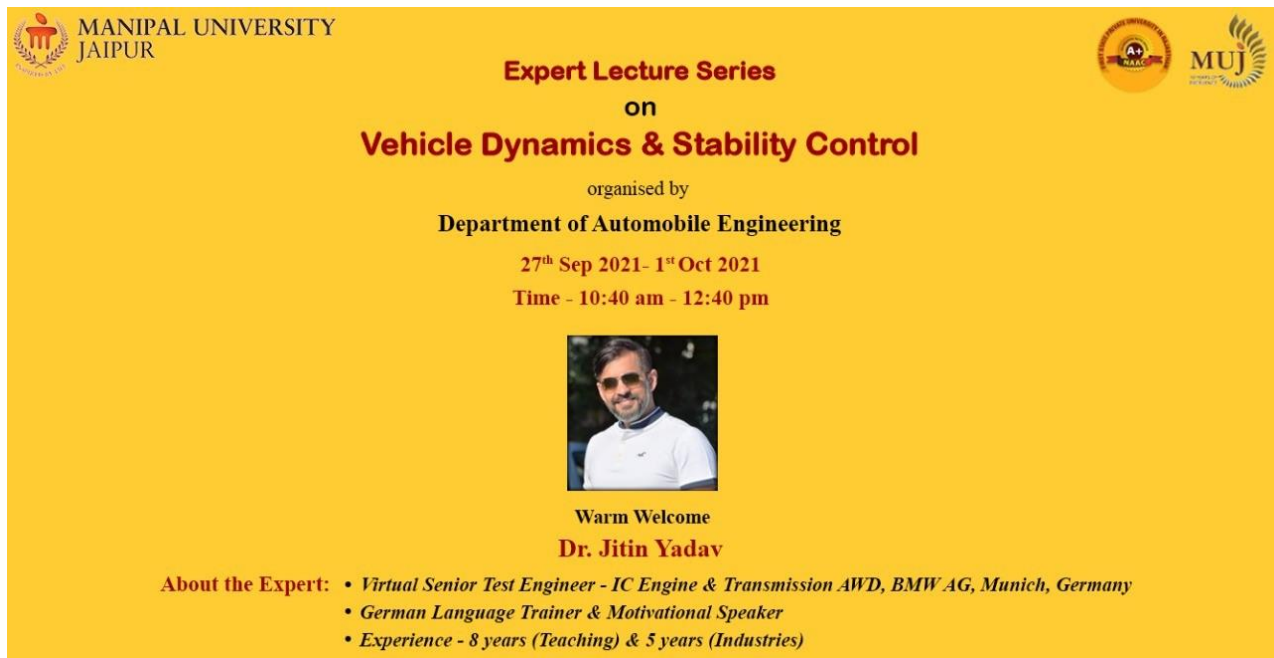
**Venue: Manipal University Jaipur**

**Mode of Delivery: Online ( From Germany)**

**Date: 27 Sept.- 05 Oct. 21 (10:40AM-12:40 PM)**

Department of Automobile Engineering, MUJ has successfully organized an expert lecture series on “**Vehicle Dynamics and Stability Control**” at Manipal University Jaipur, Rajasthan on 27th Sept. 2021 to 01 Oct. 2021. The talk was delivered by **Dr. Jitin Yadav Virtual Test Engineer, BMW AB, and Munich, Germany**. B.Tech. Automobile Engg. Final year students (VII sem.) attended the program of expert lecture. All the various topics were taken into the syllabus that are important for automobile engineer ranging Vehicle handling, Vehicle performance, Braking and acceleration concepts, aerodynamic forces, Stability of vehicle, Road performance. All the important aspects were covered that are useful in industries and it will be benefited to all the students who attended the expert lecture series. Dr. Yadav also discussed about the admission procedure in German University for master program and importance of German language for getting admission in good German university.

More than 30 Automobile final engineering undergraduates’ students participated in this expert lecture series.




The poster features a yellow background with the Manipal University Jaipur logo in the top left and right corners. The central text reads: 'Expert Lecture Series on Vehicle Dynamics & Stability Control organised by Department of Automobile Engineering 27th Sep 2021- 1st Oct 2021 Time - 10:40 am - 12:40 pm'. Below this is a portrait of Dr. Jitin Yadav, followed by 'Warm Welcome Dr. Jitin Yadav'. At the bottom, 'About the Expert:' is followed by three bullet points: 'Virtual Senior Test Engineer - IC Engine & Transmission AWD, BMW AG, Munich, Germany', 'German Language Trainer & Motivational Speaker', and 'Experience - 8 years (Teaching) & 5 years (Industries)'.

**MANIPAL UNIVERSITY  
JAIPUR**

**Expert Lecture Series  
on  
Vehicle Dynamics & Stability Control**

organised by  
**Department of Automobile Engineering**

27<sup>th</sup> Sep 2021- 1<sup>st</sup> Oct 2021  
Time - 10:40 am - 12:40 pm



Warm Welcome  
**Dr. Jitin Yadav**

**About the Expert:**

- *Virtual Senior Test Engineer - IC Engine & Transmission AWD, BMW AG, Munich, Germany*
- *German Language Trainer & Motivational Speaker*
- *Experience - 8 years (Teaching) & 5 years (Industries)*

Performance → Speed

Handling → Const Speed  
 ↙ ↘  
 Curve  
 Speed angle  
 Train → Vary

Profy ↑ ✓  
 T

Unmute Start Video Participants Chat Share Screen Record Reactions Leave

Air Resistance

Grade Resistance  
 $R_g \rightarrow W \sin \theta$   
 $R_r$  - Rolling

Tractive Effort

$R_d$  - drag

Eq.:

$$\frac{W}{g} \frac{d^2 \omega}{dt^2} = F_f + f_r - R_a - R_{rf} - R_{rr} - R_d - R_g$$

Participants Chat Share Screen Record Reactions Leave

Zoom Meeting (Locked)

Participants (16)

Find a participant

- Akshat Mittal
- AKSHAT RAMBAL
- AM Ansh Mehra
- GK Gitesh Kankhane
- HS Harsh Saharan
- KG Kush Garg
- Manav Dubey
- RS Ripanjot Singh
- Shivam Singh
- Simar Verma
- ST SOMYA THAKKAR
- V vishalshin s s
- VP Veda Prasad, R

169101034 R.Ra...  
Ripanjot Singh  
SOMYA THAKKAR

Harsh Saharan  
Gitesh Kankhane  
Kush Garg

Mail - Dr. Upendra Kulkarni [MU Jasper] Outlook  
Google Chrome

Mail - Dr. Upendra Kulkarni ... Prasad, R

30°C

11:44 AM 10/1/2021

Zoom Meeting

Participants (16)

Find a participant

- DU Dr. Upendra Kulkarni (Me)
- Jin Yadav (Host)
- IR 169101034 R.Ra...
- Akshat Mittal
- AKSHAT RAMBAL
- AM Ansh Mehra
- GK Gitesh Kankhane
- HS Harsh Saharan
- KG Kush Garg
- Manav Dubey
- RS Ripanjot Singh
- Shivam Singh
- Simar Verma
- ST SOMYA THAKKAR

Dr. Upendra Kul...  
Ansh Mehra  
AKSHAT RAMBAL  
Manav Dubey  
Jin Yadav

Power? (veh)  
Acc  
\* Parameter  
\* Basic Calculations  
\* Effic  
\* Handling  
\* Kinematic  
\* Dyn  
\* Varying  
\* Wheel  
\* A/R wheel  
\* Dia  
\* RPM - Normal  
\* Lat. force  
\* Slip  
\* Particles  
\* Head  
\* etc

30°C Light rain

11:01 AM 10/1/2021