

Feedback of Toptech

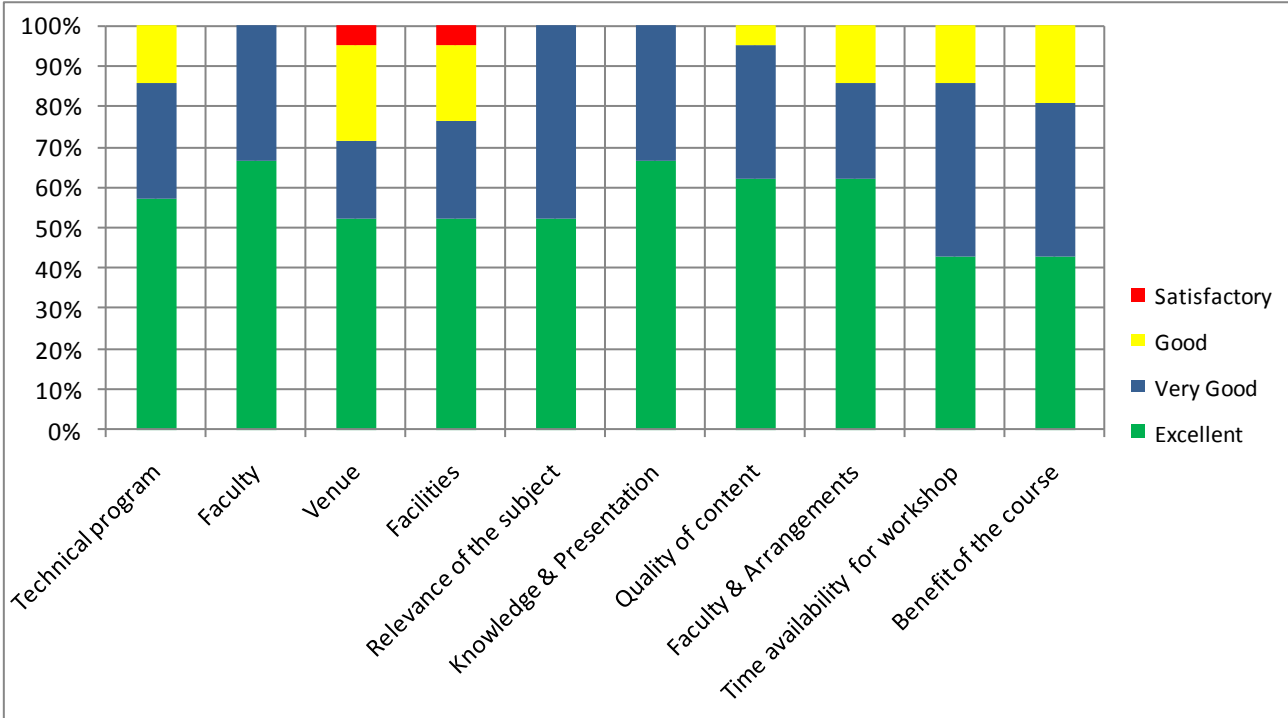
Topic : **Steering System & Vehicle Handling**
Date & Venue : **15th & 16th September 2017, Hotel Ambica Empire, Chennai**
Faculty : **Mr. S. Radhakrishnan, Vice President (Retired), Rane TRW.**
No. of Delegates : **30**

Suggested topic for future lecture meeting program

- Related to Production Engineering advanced concepts.
- Suspension & Vehicle Handling.
- Kinematics & failure mode effect analysis.
- Field failure issues & resolution.
- Video explanation will improve the under stability.
- Vehicle testing.
- Need Brake system, Detailed training with Suspension & Vehicle Dynamic effect.
- Can cover more on futuristic concepts and next generation business models.
- Suspension systems
- To add the more practical workshop example widely.
- NVH and Suspension systems.
- Ride and measurement for commercial vehicles with practical approach.
- Brake system ABS, ESP, TCS, Sensors and Chassis.

Improvement suggested points

- If possible please add few more examples regarding the tractor steering systems and tractor dynamics.
- Please keep it more interactive and some more videos about the better visualization.
- Detailed explanation of course of hard copy will help to refer the course in later times.
- Venue is very poor and needs improvement.
- Keep direction of vehicle movement to right side in all slides for better understanding.
- Need some more hands-on training content.
- The second day of the program covered more on mechanical definition; instead it could have covered with more abstract future topics of steering.



Report

SAEINDIA Southern Section conducted the Toptech program on “**Steering Systems and Vehicle Handling**” was organized on 15th & 16th September 2017, Friday & Saturday at Hotel Ambica Empire, Chennai.

Speaker: **Mr. S. Radhakrishnan, Retired Vice President, Rane TRW**

Mr. S. Radhakrishnan welcomed all the participants for the Steering Systems & Vehicle Handling. He first received all the names and organization of the participants. Then he started the morning session. As per the participants request he started with the basics of the Steering Systems.



Mr. S. Radhakrishnan explained the basic steering systems of bi-cycle and other steering systems. He then went deep into the steering system of various vehicles used and their improvement done.



He also explained the layout of a Typical Hydro Power Steering system. Then he also explained the power Steering System for CVs and Typical Hydrostatic Steering System.



Mr. S. Radhakrishnan also explained how a good steering system helps to increase Fuel Efficiency, Emission control, Control Flexibility and integration with other electronic devices like ABS, TCS, ESP, etc. He then explained recirculating ball nuts and Screw mechanism in the steering system. He also explained the function and working of the ball nuts. He then explained the Hydraulic Power Steering Gear Cross Section and oil flow for right turn and also he explain about the oil flow for the left turn steering vehicle.



Mr. S. Radhakrishnan explained Steering Columns and Fundamental requirements of steering columns and their functions.



Mr. S. Sriraman, Chairman, SAEISS took on stage for the valedictory function. He explained the need and importance of the steering systems. He also thanked all the participants and their respective organization for spending the time in the program. He also thanked the speaker for his valuable training program on Steering Systems and Vehicle Handling. Participants also thanked the speaker for the knowledge sharing and dedication towards the training program. Mr. S. Sriraman, Chairman, SAEISS and Mr. S. Radhakrishnan issued the certificate to the participants.



Mr. S. Sriraman, Chairman, SAEISS thanked Mr. S. Radhakrishnan and presented him the memento.

Toptech Champion: Dr. N. Kulasekharan MC Champion: Mr. R. Armstrong.
Prepared by: N. Swaminathan