

2 Days Certificate Programme on

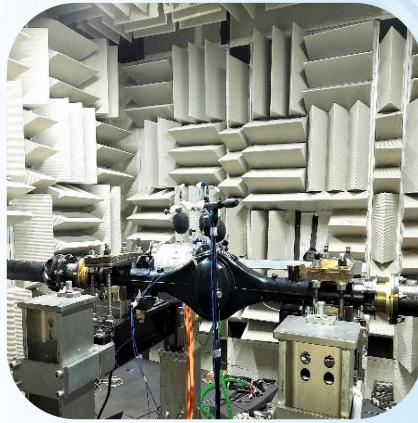
Automotive Transmission Design (including EV Powertrain & DVP)



Date: 19th & 20th January 2026



Venue: ARAI Academy, Chakan, Pune



SPEAKERS



Dr. Husain Kanchwala

Assistant Professor, IIT, Delhi



Mr. Abhijeet Pingale

Head Divgi TorqTransfer Systems



Mr. Amol Korde

Design Engineer, Hexagon



Mr. Rakesh V. Mulik

General Manager, ARAI, Pune



Mr. Shashank Y. Badgujar

Dy. General Manager, ARAI, Pune



Mr. Nilesh Sakle

Sr. Manager, ARAI, Pune

01 OBJECTIVES:

Automotive transmissions play a crucial role in operation & performance of a vehicle and it has increased more as hybrid & electric vehicle are liked by customers more. Indian market has also witnessed more hybrid drivetrain model and more advanced transmission like DCT, AT, AMT in recent years. Considering the market trend, a design engineer requires a comprehensive understanding of various engineering principles & transmission technologies. This training program covers Overview, opportunities, development cycle, components, theory, fundamental design principals, calculations, Rotor dynamics and vibration analysis. Development of advanced powertrains like E-axles and validation plan for drivetrain components are also discussed. Understanding these concepts requires a multidisciplinary approach. This training will help engineers to meet challenges and innovate in rapidly evolving automotive industry, ensuring the development of efficient, reliable, and environmentally conscious transmission systems. Continuous learning and adaptation to emerging technologies are crucial in this dynamic field.

02 SCHEDULE OF THE PROGRAMME:

Day One: 19 th January 2026	
Start	Subject
8:30	Registration & Breakfast
9:30	Introduction to Vehicular Transmissions
10:15	Transmission Design: Tractive calculations and fixing gear ratios
10:45	Transmission vibrations introduction
11:45	Rotordynamics models for transmission
13:45	LUNCH BREAK
14:45	Holder's and Myklestad Prohl method for torsional and out of the plane bending vibrations
15:45	Transmission Development Cycle, Opportunities and industry Case - Study
16:15	Conclusion
Day Two: 20 th January 2026	
09.00	Development of Powertrain Architecture for Hybrid Electric Vehicle - HEV Transmission Systems
11.00	From blank sheet to ePowertrain design
12.30	DVP Plan Driveline Components
13.00	Lunch break
14.00	Design and Development of Axle based Advanced Powertrains for EV
16.00	Test Set Demo on E-Powertrain Setup
16:30	Feedback & Assessment

03 REGISTRATION FEES:

Registration Fees (Rs.)

(per participant) Rs.10,000 + 18% GST = Rs. 11,800

**10% DISCOUNT if 5 or more delegates
are registered from the same
organization**

Limited seats for Faculty/Student with a special discount.

04 PAYMENT INFORMATION:



Register Now!

Mode of Payment: Online Transaction

ARAI Pune Account No: 04470200000280

IFSC/RTGS/NEFT Code: BARBOKARVER (0=Zero)

Note: Participants from organization in SEZ must confirm the applicability for GST before making the payment.

05 REGISTRATION CONTACT:

Contact Details

Phone: 02135-630795/90 or 02135-396695/90

Email: training.pga@araiindia.com; patil.pga@araiindia.com

Website: <https://www.araiindia.com/services/knowledge-dissemination>

Venue: ARAI Academy, ARAI-FID, B-16/1, MIDC, Chakan,
Mahalunge Ingale, Maharashtra 410501

Who should attend:

- Automotive Engineers
- Mechanical Engineers
- Researchers and Working Professionals in the Automotive Transmissions, Hybrid & Electric Vehicle
- Government Officials and Policymakers