

SPEAKERS



Dr. K. C. Vora : Sr. Dy. Director & Head Academy ARAI, Pune. He has his Ph.D. from IIT-Bombay. He has a vast industrial & academic experience of 30+ years. He has specialized in the field of Automotive Education, Technology Development, Knowledge Management, Engine R&D and Emission Controls. He was instrumental in starting ARAI Academy, which conducts Graduate, Post Graduate and Doctoral Courses in Automotive Engineering. He is the Advisor in various activities of SAEINDIA, under which he conducts series of students' activities like AWIM & BAJA SAEINDIA. He is Chairman of technical committee of FISITA 2018 & SIAT 2018.



Mr. Mohammad Rafiq Agrewale : Deputy Manager in ARAI Academy, Pune. He has done Masters' Degree in Mechanical Engineering in Thermal Discipline and Bachelor's Degree in Automobile Engineering. Currently pursuing Ph.D. from University of Mumbai. His expertise includes Automotive Aerodynamics, Automotive Testing & Certification, Automotive Safety and Computational Fluid Dynamics. He is recipient of Dronacharya Award as Best Faculty Advisor by SAEINDIA SUPRA in 2014, Engineer of the Year Award by SAEINDIA Foundation in 2017 and Best Executive Award by ARAI in 2017. He is member of Technical Paper Review Committee in FISITA World Congress 2018.



Dr. Yogesh Bhatshvar : Asst. faculty of Automotive Electronics, ARAI Academy, Pune. He has received the Bachelor of Engineering degree in electronics and communication engineering from Rajasthan University, Jaipur, India, and the M.Tech degree in Automotive Electronics from VIT University, Vellore, India. He received the Ph.D. degree from BITS-Pilani, India, in 2016. He have more than 8 years of teaching and research experience. His research interests include intelligent control systems and their applications to automotive engineering and smart grid technologies in power systems.



Mr. Aatmesh Jain : Engineer, ARAI Academy, Pune. He has done B.Tech in Automobile Engineering from SRM University and M Tech in I. C. Engines from Veltech University Collaborated with ARAI. His expertise is in the field of Alternative Fuels, Engine Emission and their Control Strategies. He has published many national and International papers in technical and non-technical domain.

3 Day Proficiency Improvement Programme on Automotive Research & Development at Pillai College of Engineering, New Panvel from 17th to 19th Sept. 2018

REGISTRATION FORM

Name, Designation, Dept., Office No., Mobile No. & Email ID :	
Delegate - 1	
Delegate - 2	
Delegate - 3	
Company Name & Address	
Co-ordinator's Name, Designation, Contact No., Email ID	
100% Advance Payment Details	

Please email/post duly filled-in registration form on or before 14th September 2018 to:

Dr. K. C. Vora, Sr. Dy. Director & Head, ARAI Academy
 ARAI-Forging Industry Division, Chakan, B-16/1, MIDC Chakan,
 Taluka Khed, Dist Pune 410501 (INDIA)
 Contact No: 02135-396695/ 6693/6691 /6690
 Email : training.pga@araiindia.com; nadeshmukh.pga@araiindia.com
patil.pga@araiindia.com
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Mrs. Vaishali Kumbhar, Assistant Professor, Dept. of Automobile Engineering (PcE), New Panvel- 410206
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2015



2011

3 Day Proficiency Improvement Programme on

Automotive Research & Development



at

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Jointly Organized by



BACKGROUND & OBJECTIVES

By 2026, the vision of the Indian Automotive Industry is to make India among the top three countries of the world in terms of Engineering, Manufacturer & Export of Vehicle & Auto components. This will contribute to 12% of India GDP & generating additional 65 million jobs.

Considering this growth targets, we need to work towards skill development with an aim to have a strong Automotive Research & Development capability in the country.

This programme encompasses regulatory interventions in Auto fuels, emission norms, safety regulations, inspection & certification regime and design aspects related to powertrain, vehicle & use of electronics for safe, sustainable, smart & affordable mobility.

ARAI Academy and Pillai College of Engineering invites you to join together to understand everything about Automotive Research & Development.

INTENDED LEARNING OUTCOMES

On completion of the module, the delegates should be able to:

- Understand Indian Automotive Scenario & Mission
- Understand Fundamentals of Automotive Engineering
- Understand Alternate Fuels
- Understand Automotive Testing & Certification
- Understand Automotive Safety & Evaluation
- Understand Engine Design, Development & Testing
- Understand Engine Emission & After Treatment System Strategies
- Understand Fuel Cell, Automotive Electronics, Connected & Autonomous Cars
- Demonstrate independent learning ability necessary for conducting professional development.
- Become self-disciplined and self-motivated, demonstrating personal responsibility in the pursuit of studies and professional practice.



PROGRAMME

Day One

- 08.30 – Registration & Breakfast
- 09.30 – Indian Automotive Scenario & Mission
- 11.00 – Tea Break
- 11.15 – Automotive Engineering
- 13.00 – Lunch
- 14.00 – Overview of Alternate Fuels
- 16.00 – Automotive Testing & Certification
- 17.00 – Conclusion

Day Two

- 09.00 – Automotive Safety & Evaluation
- 10.00 – Engine Testing
- 11.00 – Tea Break
- 11.15 – IC Engine Design & Development
- 13.15 – Lunch
- 14.15 – Fuel Cells
- 15.00 – Automotive Emission
- 16.45 – Conclusion

Day Three

- 09.00 – After Treatment System Strategies
- 11.00 – Tea Break
- 11.15 – Automotive Electronics, Connected & Autonomous Cars
- 13.15 – Lunch
- 14.15 – Written Test
- 15.30 – Summary, Discussions and Feedback, Certificate Distribution
- 16.15 – Conclusion



WHO SHOULD ATTEND ?

- Vehicle & Component Manufacturers.
- Organizations involved in Automotive Research, Design, Development, Testing, Certification & Manufacturing.
- Vehicle & Component Manufacturers.
- Engine Manufacturing, Assembly & Service Engineers.
- Engineering / Consulting Companies.
- Professors / Engineering Students/ PhD Scholars

MODE OF PAYMENT

At Par / Multicity cheque or demand draft in favour of

The Automotive Research Association of India
payable at Pune.

ARAI, over five decades, has provided its design and development expertise to the Indian automotive industry, focusing on the testing and evaluation of components and systems to meet national and international standards. ARAI strives to achieve international recognition in these areas. In keeping with the globalization of economy and business, ARAI continues to enlarge its scope of services to meet the requirements of automotive industries around the world. In addition to utilizing state-of-the-art technology, laboratories and highly-trained personnel, ARAI recognizes the need to develop a new generation of engineers to meet the demands of the automotive industry, not just in India but across the globe.

ARAI ACADEMY is classified into three divisions:

LEARNING CENTRE has embarked upon a programme of building up human resources by commencing educational programme (Graduate, Post graduate & Doctoral) with specialization in Automotive Engineering. It has tied up with VIT University (Vellore), Veltech University (Chennai), College of Engineering (Pune), Christ University (Bangalore), University of Alabama (USA), Tennessee Tech University (USA), Loughborough University (UK) and University of Braunschweig (Germany).

KNOWLEDGE CENTRE It has collection of around 24,600 books, standards, project reports, seminar/conference proceedings and around 75,000 SAE technical papers. It also has 450 eBooks. It subscribes to 40 national and international journals. It regularly publishes a monthly magazine 'Automotive Abstracts'. It also conducts literature / patent search for customer's projects.

TRAINING CENTRE: In line with Post Graduate and Doctoral Programs conducted by various universities abroad, ARAI Academy has devised various Proficiency Improvement Programmes (PIPs & ePIPs), to be taught by ARAI, Academia & Industry Experts. PIP gives engineers, faculty and student's knowledge and technical expertise in a wide range of automotive disciplines. It helps in understanding system's view point for automotive design and manufacture, with specific skills in formulating automotive engineering solutions in terms of their function and performance, through optional modules.

REGISTRATION FEES

Category	Registration Fees (Rs.) (per participant)	Total Fees including Tax of 18% (Rs.) (per participant)
Engineers & Professionals	5,000.00	5,900.00
Teaching Faculty	3,000.00	3,540.00
Engineering College Students	2,000.00	2,360.00

Besides Registration Fee, Pillai College of Engineering, New Panvel (PcE) will charge separately for accommodation and food which is optional for delegates. (Contact **Mr. Amey Marathe** & **Mrs. Vaishali Kumbhar**, Assistant Professor, Dept. of Automobile Engineering (PcE)
Mail: ameymarathe@mes.ac.in, vkumbhar@mes.ac.in

Based on the present system in universities, credits are proposed for each module, so that the graduate engineers can attend various modules and sum-up the credits required for Master's or Doctoral Programs. Participants also get chance to visit related laboratories of ARAI and get hands on experience. Certificates are issued on the basis of attendance & written test conducted at the end of the programme. We also conduct Training Programmes through WEBEX and Domain Training Programmes for Automotive Industry.

Please visit www.araiindia.com & academy.araiindia.com for more information.

PILLAI COLLEGE OF ENGINEERING, NEW PANVEL

Pillai College of Engineering is a flagship institute of Mahatma Education Society (MES), which began its endeavor of Education for all in Chembur English School in 1970. Pillai College of Engineering (PCE) was established in the year 1999 in New Panvel, largely, to provide a world class engineering education to students of rural Maharashtra. PCE is affiliated to University of Mumbai, approved by All India Council for Technical Education (AICTE) and accredited by National Board of Accreditation (NBA). The institute offers 6 undergraduate (Bachelor of Engineering) programs in Automobile Engineering, Computer Engineering, Electronics Engineering, Electronics and Telecommunication Engineering, Mechanical Engineering and Information Technology. It also offers 5 postgraduate (Masters in Engineering) programs in Computer Engineering, Electronics Engineering, Mechanical Engineering and Information Technology. PCE from this academic year has received a research center status from the University of Mumbai for the department of Mechanical Engineering and Computer Engineering which has enabled the Institute to run 2 PhD (doctoral) programs. PCE is also a member of Indo US Collaborative for Engineering Education (IUCEE) consortium.

Please visit www.pce.ac.in for more information.

Note : ARAI reserves the right to change the dates, schedule, contents, speakers, venue etc. for the programme without any notice.