ARAI ACADEMY

LEARNING CENTRE

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 pace 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-skilled personnel, ARAI recognizes the need for skill development to meet the demands of the automotive industry, not just in India but across the globe.

ARAI 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 (Bengaluru), University of Alabama (USA), Tennessee Tech University (USA), Loughborough University (UK) and Braunschweig University (Germany).

Brief summary of joint programmes is as follows:

UNIVERSITY	PROGRAMMES	SPECIALIZATION	DURATION	NO. OF SEATS
VIT, Vellore www.vit.ac.in	B. Tech.	Mechanical Engineering with specialization in Automotive Engineering	4 years	60
	M. Tech.	Automotive Engineering	2 years	60
	*M. Tech. *(for Industry Professionals)*	Automotive Engineering with specialization in Engine Technology	2 years	40
		Powertrain Electronics	2 years	40
		Manufacturing & Industrial Engineering	2 years	40
		*Following companies have collaborated with ARAI to admit their engineers for M. Tech Programme while continuing their work: Ashok Leyland, Cummins, Eaton, Magna Steyr, Mahindra & Mahindra, TACO-Hendrickson, Tata Motors, Woodward		
	Ph.D.	Automotive Engineering	3/6 years	10
Vel Tech, Chennai www.vel-tech.org	B. Tech. *(in association with GARC, Chennai)*	Mechanical Engineering with specialization in Automotive Engineering	4 years	60
	M. Tech.	I. C. Engines	2 years	30
		Electronics Engineering with specialization in Automotive Electronics	2 years	25
College of Engineering, Pune www.coep.org.in	M. Tech.	Automotive Technology	2 years	36
Alabama Birmingham, USA www.uab.edu	M. S.	Mechanical Engineering with Automotive Engineering Emphasis		
Christ University www.christuniversity.in	B Tech	Automobile Engineering	4 Years	60

For further information and registration, please visit respective University website or contact **Mr. N. A. Sakle**, Manager, ARAI Academy at 02135-396670 or **sakle.pga@araiindia.com.** For placement of students, companies may like to contact **Mr. N. A. Sakle**, Manager, ARAI Academy at 02135-396670 or **sakle.pga@araiindia.com**.

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.

To become a member of Knowledge Centre or to subscribe for Automotive Abstracts, **please contact Mrs. S. S. Das, Manager**, Knowledge Centre on **(020) 30231192** or **das.lib@araiindia.com** and **Dr. Madhav Rao**, Deputy Manager, Knowledge Centre-FID on (02135) 396685 or **madhavrao.lib@araiindia.com.**

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For more details, proposals & partnership please contact: **Dr. K. C. Vora, Sr. Dy. Director & Head, ARAI Academy at vora.pga@araiindia.com**
ARAI: The Automotive Research Association of India, S.No.102, Vetal Hill, Off Paud Road, Kothrud, Pune-411 038.
ARAI FID: ARAI Forging Industry Division, Plot No. B-16/1, MIDC, Chakan, Taluka Khed, Pune-410 501. Ph: 02135 / 396660 / 396661

TRAINING CENTRE

In line with Graduate, Post Graduate and Doctoral Programs conducted by various universities abroad, ARAI Academy has devised various Proficiency Improvement Programmes (PIPs), to be taught by ARAI, academia & industry experts. 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 written test conducted at the end of the programme. We also conduct training programmes through eLearning, WEBEX and Domain Training Programmes for automotive industry at their preferred sites. ARAI has started developing web based eLearning Courses popularly known as 'ePIPs' (eLearning Proficiency Improvement Programmes) on various Automotive Engineering domain. ePIPs are highly engaging and effective eLearning modules, in which the licenced users can learn the subject matter online and gain practical as well as theoretical knowledge at their own pace, using a wide range of digital devices, anytime and anywhere.

PROFICIENCY IMPROVEMENT PROGRAMMES (PIPs)

TITLE OF THE COURSE	DATE	DURATION IN DAYS	VENUE	PROPOSED PARTNER/S
Basic & Advances in Heat Treatments	29th – 31st Aug 18	03	ARAI FID	ASM, Pune
Advanced Fuels-Technology & Regulations	4th – 6th Sept 18	03	ARAI FID	
Engine Combustion and Simulation	10th – 12th Sept 18	03	ARAI FID	
Automotive Research & Development	17th – 19th Sept 18	03	Pillai College of Engg (PCoE)	PCoE, New Panvel
Design for Manufacturing	25th – 27th Sept 18	03	ARAI FID	
Fuel Cell Vehicles: Potential Power Source for Future (Blended)	27th – 28th Sep 18	02	ARAI FID	
Electric Vehicle Design & Validation	09th – 12th Oct 18	04	ARAI FID	
Automotive NVH	15th - 17th Oct 18	03	ARAI FID	
Engine Testing & Certification	22nd -26th Oct 18	05	ARAI FID	
Forging Technology	29th – 31st Oct 18	03	ARAI FID	
ECU & Diagnostics	22nd – 23rd Nov 18	02	ARAI FID	
Automotive Testing and Certification	28th – 30th Nov 18	03	ARAI FID	
Connected & Autonomous Mobility	5th – 7th Dec 18	03	ARAI FID	
Failure Analysis (including Engine components)	12th – 14th Dec 18	03	ARAI FID	ASM, Pune
Vehicle Drivelines	18th – 20th Dec 18	03	ARAI FID	
Tool Engineering	03rd – 04th Jan 19	02	ARAI FID	ASM, Pune
Engine Electronics & Management Systems (Blended)	07th – 11th Jan 19	05	ARAI FID	
Industrial Safety (Blended)	24th – 25th Jan 19	02	ARAI FID	TACO
Embedded System for Automotive Application	6th – 8th Feb 19	03	ARAI FID	
Engine Emissions & Control (Blended)	18th – 22nd Feb 19	05	ARAI FID	
CQI 9 : For the Heat treators	28th Feb 19	01	ARAI FID	ASM, Pune
Engine Design & Development	15th – 19th Apr 19	05	ARAI FID	
Metallurgy for Non-metallurgists	24th – 26th Apr 19	03	ARAI FID	ASM, Pune
Vehicle & Engine Testing	16th -17th May 19	02	ARAI FID	
Foundry Technology	5th – 6th Jun 19	02	ARAI FID	ASM, Pune
Automotive NVH	12th – 14th Jun 19	03	ARAI FID	
Automotive Engineering	17th – 21st Jun 19	05	ARAI FID	
Powertrain Engineering	01st - 04th Jul 19	04	ARAI FID	
Basic & Advances in Heat Treatments	28th – 30th Aug 19	03	ARAI FID	ASM, Pune
Forging Technology	09th – 11th Oct 19	03	ARAI FID	
Failure Analysis (including Engine components)	11th – 13th Dec 19	03	ARAI FID	ASM, Pune
Tool Engineering	02nd – 03rd Jan 20	02	ARAI FID	ASM, Pune
CQI 9 : For the Heat treators	28th Feb 20	01	ARAI FID	ASM, Pune
Automotive EMI & EMC	To be decided	03	ARAI	
Geometrical Dimensioning & Tolerancing	To be decided	02	ARAI FID	
Corrosion Engineering	To be decided	02	ARAI FID	ASM, Pune
Design Failure Mode Effect Analysis	To be decided	02	ARAI FID	
Design & Analysis of Experiments	To be decided	02	ARAI FID	
Quality and Reliability Engineering	To be decided	02	ARAI FID	
Automotive Materials & Manufacturing	To be decided	03	ARAI FID	
Advance Material & Characterization	To be decided	03	ARAI FID	
Hybrid Drives, Traction & Controls	To be decided	03	ARAI FID	
Corporate Success through Systematic Innovation	To be decided	02	ARAI FID	
e-PROFICIENCY IMPROVEMENT PROGRAMMES (ePIPs)				
Reliability Engineering	Anytime	Course access-3 months Course time – 5 hrs.	Anywhere (Internet based)	
Engine Electronics and Management System (EEMS)	Anytime	Course access - 3 months Course time – 15 hrs.	Anywhere (Internet based)	RBEI

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

For further information & registration of Training Programmes, please contact Mr. Rajesh Patil, Manager, ARAI Academy at (02135) 396690/91/93 or patil.pga@araiindia.com; training.pga@araiindia.com;