

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	50
	*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	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 **Dr. S. A. Patil**, DGM, ARAI Academy at 020-30231243 or sapatil.pga@araiindia.com. For placement of students, companies may like to contact Mr. Avinash Kulkarni, Manager, ARAI Academy at 020-30231242 or kulkarni.pga@araiindia.com.

KNOWLEDGE CENTRE

It has collection of around 23,000 books, standards, project reports, seminar/conference proceedings and around 75,000 SAE technical papers. It also has 237 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. Knowledge Centre offers membership: Option 1- for reference only, Option 2 – with book borrowing facility.

To become a member of Knowledge Centre or to subscribe for Automotive Abstracts, please contact **Mrs. S. S. Das**, Manager, Knowledge Center on 020-3023 1192 or das.lib@araiindia.com

For more details, proposals & partnership please contact: **Dr. K. C. Vora, Sr. Dy. Director & Head, ARAI Academy at vora.pga@araiindia.com**

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ARAI FID: ARAI Forging Industry Division, Plot No. B-16/1, MIDC, Chakan, Taluka Khed, Pune-410 501. Ph: 02135-259595 / 259042 / 259044

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.

PROFICIENCY IMPROVEMENT PROGRAMMES (PIPs)

TITLE OF THE COURSE	DATE	DURATION IN DAYS	VENUE	PROPOSED PARTNER/S
Advanced Material and Characterization	02 nd - 06 th Jan 17	05	ARAI FID	
Advanced Automotive Engineering	9 th - 11 th Jan 17	03	Bangalore	Christ University (CUFE)
Engine Electronics & Management System	30 th Jan- 03 rd Feb 17	05	ARAI	
Engine Emission & Control	06 th - 10 th Feb 17	05	ARAI	ECMA
Automotive Functional Safety	13 th - 17 th Feb 17	05	ARAI	
Systematic Innovative Thinking	18 th February 2017	01	ARAI-FID	Triz Asia
Foundry Technology	22 nd - 24 th Feb 17	03	ARAI-FID	ASM International Pune
Advanced Automotive Engineering	23 rd - 25 th Feb 17	03	Belgaum	Gogte Institute of Technology (GIT)
Current State of the Art - Random Response and Fatigue Technology	27 th Feb 17	01	ARAI	CAEFatigue, SAEIWS
POSH	07 th Mar 17	01	ARAI FID	TACO
Industrial Safety	09 th - 10 th Mar 17	02	ARAI FID	TACO
Off Highway Standards	20 th Mar 17	01	ARAI	SAEWIG
Hybrid Drives, Traction & Controls	3 rd - 7 th Apr 17	05	ARAI	
Metallurgy for Non-Metallurgist	10 th - 12 th Apr 17	03	ARAI FID	ASM International, Pune
Engine Design & Development	17 th - 21 st Apr 17	05	ARAI	
Design and Analysis of Experiments	17 th - 21 st Apr 17	05	ARAI-FID	
Engine Control Systems	24 th - 28 th Apr 17	05	ARAI	
3 P (Production Preparation Process) including PFMEA	26 th - 28 th Apr 17	03	ARAI FID	India NPD School
Material Characterization, Quality Control & Failure Analysis for Automotive Application	5 th May 17	01	ARAI	PerkinElmer
Statistics for Engineers	11 th - 12 th May 17	02	ARAI FID	Qsutra
Product Design and Life Cycle Management	19 th - 23 rd Jun 17	05	ARAI-FID	
Professional Development for Engineers	19 th - 23 rd Jun 17	05	ARAI- FID	
Automotive Engineering	19 th - 23 rd Jun 17	05	ARAI	
Excellence through Quality	28 th - 30 th Jun 17	03	ARAI FID	TACO
Engine Testing & Certification	03 rd - 07 th Jul 17	05	ARAI	AVL
Powertrain Engineering	10 th - 14 th Jul 17	05	ARAI	
Basics & Advances in Heat Treatment	19 th - 21 st Jul 17	03	ARAI FID	ASM International, Pune
Systems Engineering	31 st Jul - 04 th Aug 17	05	ARAI	Cummins
New Product Development	21 st - 22 nd Aug 17	02	ARAI FID	India NPD School
Advanced Material Characterization	11 th - 15 th Sept 17	05	ARAI-FID	
Automotive Fuels & Energy	11 th - 15 th Sept 17	05	ARAI	
Automotive Sensors & Actuators	18 th - 22 nd Sept 17	05	ARAI	
Quality & Reliability Engineering	18 th - 22 nd Sept 17	05	ARAI-FID	
Design of Experiments	25 th - 27 th Sept 17	03	ARAI FID	Qsutra
Design of Vehicle Drivelines	30 th Oct - 03 rd Nov 17	05	ARAI	
Human Factor Engineering	30 th Oct - 03 rd Nov 17	05	ARAI-FID	
Powertrain NVH	06 th - 10 th Nov 17	05	ARAI	
QFD and DFMEA	14 th - 17 th Nov 17	04	ARAI FID	India NPD School
Failure Analysis (Including Engine components Failures)	13 th - 15 th Dec 17	03	ARAI-FID	ASM, Pune
Engine Emissions & Control	08 th - 12 th Jan 18	05	ARAI	ECMA
Automotive Functional Safety	15 th - 19 th Jan 18	05	ARAI	
Road Safety	16 th - 17 th Jan 18	02	ARAI FID	TACO
Engine Electronics & Management System	29 th Jan - 02 nd Feb 18	05	ARAI	
Geometrical Dimensioning & Tolerancing	15 th - 16 th Feb 18	02	ARAI FID	NTTF, Bangalore
Design & Analysis of Experiments	19 th - 23 rd Feb 18	05	ARAI-FID	
POSH	07 th Mar 18	01	ARAI FID	TACO
Industrial Safety	08 th - 09 th Mar 18	02	ARAI FID	TACO
Hybrid Drives, Traction & Controls	02 nd - 06 th Apr 18	05	ARAI	
Engine Design & Development	16 th - 20 th Apr 18	05	ARAI	
Product Design and Life Cycle Management	23 rd - 27 th Apr 18	05	ARAI-FID	
Engine Control Systems	23 rd - 27 th Apr 18	05	ARAI	
Professional Development for Engineers	18 th - 22 nd Jun 18	05	ARAI-FID	
Automotive Engineering	18 th - 22 nd Jun 18	05	ARAI	
Engine Testing & Certification	09 th - 13 th Jul 18	05	ARAI	AVL
Quality & Reliability Engineering	09 th - 13 th Jul 18	05	ARAI-FID	
Powertrain Engineering	16 th - 20 th Jul 18	05	ARAI	
Systems Engineering	06 th - 10 th Aug 18	05	ARAI	Cummins
Powertrain NVH	03 rd - 07 th Sept 18	05	ARAI	
Advanced Material Characterization	25 th - 29 th Sept 18	05	ARAI FID	
Automotive Fuels & Energy	25 th - 29 th Sept 18	05	ARAI	
Automotive Sensors & Actuators	08 th - 12 th Oct 18	05	ARAI	
Human Factor Engineering	08 th - 12 th Oct 18	05	ARAI FID	
Design of Vehicle Drivelines	22 nd - 26 th Oct 18	05	ARAI	
Engine Electronics & Management Systems	07 th - 11 th Jan 19	05	ARAI	
Engine Emissions & Control	18 th - 22 nd Feb 19	05	ARAI	
Automotive Functional Safety	25 th Feb - 01 st Mar 19	05	ARAI	
Design & Analysis of Experiments	25 th Feb - 01 st Mar 19	05	ARAI FID	

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 020-30231245/48/39 or patil.pga@araiindia.com; training.pga@araiindia.com; training.fid@araiindia.com