

REGISTRATION FEES

Program Cost	Total Fees in INR Including Tax
Until 1 st May 2017	1,10,000/-
Until 15 th May 2017	1,25,000/-
Until 1 st June 2017	1,50,000/-

Pay Online : You can choose online payment gateway method while filling the application form online : <http://www.indoeurosync.com/summer-school-registration.html>

Pay Offline : You can also choose to pay your application fees and course fees through the inter bank fund transfer mode.

*The bank receipt counterpart will serve as a proof of payment and you have to send us a scanned copy of the same after your payment.

Name of Beneficiary :	Indo Euro Synchronization UG (haftungsbeschränkt)
Name of Bank :	Sparkasse Aachen
Address of Bank :	Munsterplatz, 7-9, 52062, Aachen, Germany
A/c Number :	1072235805
IBAN :	DE52 3905 0000 1072 2358 05
BIC (SWIFT Code) :	AACSDE33XXX

Registration Fees Include :

Course fees, course materials, delegate kit, teaching room & lab facilities, excursions/visits, bed & breakfast in India as well as Germany, lunch, Entrance Tickets for Technical Museums, internal traveling in Germany

Registration Fees does not Include :

VISA, Insurance, Airfare in India & Germany and Dinner

Process for Registration :

- All participants to arrange for Visa, Insurances & Travel to Pune & Germany on their own. ARAI and IES assume no responsibility of organizing Visa & Travel arrangements, except for providing the invitation letter for visa purpose. All decisions of ARAI & IES shall be final and binding.
- Last date to register is 1st June 2017.
- Delegates should register by sending email to ARAI on training.pga@araiindia.com or IES on consult@indoeurosync.com.
- After receiving conformation delegates needs to pay application fees of Rs. 15,000/- to IES.
- Admission will be confirmed within 5 working days. You will receive VISA Invitation letter, Accommodation confirmation letter.
- Apply for your Schengen VISA from the Consulate of the Federal Republic of Germany from your region. To know more about VISA Application process, visit our website www.indoeurosync.com.
- Make your balance payment of the course fee within 15 working days of receiving the VISA Invitation letter.
- Send us the VISA approval (if granted), copy of your health insurance, No Objection Certificate from your local employer/ Institution/University/Collage
- Cultural exchange tour to Paris is optional for which delegates will have to pay additional Rs. 10,000/-
- Cancellation Policy : If the student is unable attend the program due to any valid reason, like VISA Rejections, his / her fees shall be refunded after deducting any bank transfer charges and any other booking cancellation charges.

REGISTRATION FORM

Full Name, Designation, Department, Contact Number, Email ID & Passport Number:	
Participant-1	
Participant-2	
Organization Name & Address	
Co-ordinator's Name, Designation, Contact No. & Email ID	
Please fax/email/post duly filled-in registration form on or before 1st June 2017 to: Dr. K. C. Vora, Sr. Dy. Director & Head, ARAI Academy ARAI Post Box 832, Pune 411004 / S. No. 102, Vetil Hill, Off Paud Road, Kothrud, Pune 411 038. Tel : 020-3023 1248/ 1245 /1111, Fax : 020-3023 1104 Email : training.pga@araiindia.com ; morgaonkar.pga@araiindia.com ; patil.pga@araiindia.com	

Excellence in Education...
The Drive continues...



2015



2011

Two Weeks Summer Course on



Basic + Advanced Automotive Engineering

from 19th June to 30th June 2017

at The Automotive Research Association of India, Pune, India

19th to 21st June 2017

&

at Technical University, Chemnitz, Germany

22nd to 30th June 2017

Jointly Organized by



BACKGROUND & OBJECTIVES

Due to the shrinking life-cycle of new vehicles and models, the vehicle manufacturers have to keep an eye on the future to sustain in the competitive global markets. The amazing advancements in automotive technology have been driven by market preferences of the ever demanding customer and the opportunity presented by the new technology. At the same time, the new regulations regarding vehicle, performance, safety, emission, clean air and fuel consumption have changed

WHO SHOULD ATTEND?

- Organisations involved in Automotive Research, Design, Development, Testing, Certification & manufacturing
- Automotive component manufacturers and suppliers
- Engineering / consulting professionals
- Professors / engineering college students
- Engineers interested in pursuing further studies on part time or full time basis

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).

TRAINING CENTRE, In line with 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. 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.

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.

Intended Learning Outcome

- On completion of the module, the delegates should be able to acquire an understanding of basic & advanced automotive systems & regulatory aspects with respect to the actual and future car developments in the global markets
- Understand I. C. Engine Design & Development
- Understand Automotive Safety & Evaluation, NVH
- Understand Emission Control and After Treatment Devices & On Board Diagnosis (OBD)
- Understand Automotive Fuel Technology
- Understand Electric, Hybrid Vehicle & Fuel Cell Technology
- Understand Advance Automotive Test Drive System, Advanced Powertrain Technology & Advance Fuel Cell Technology
- The participants will understand testing & research activities at ARAI, Pune and modern education & demonstration in laboratories at one of the best Universities like Chemnitz, Germany
- Participants will get a flavor of culture & technology in India & Germany, which will enhance their knowledge base as a true professional

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.

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.

Please visit www.araiindia.com for more information.

AutoSol is a signature program conducted by Indo Euro Synchronization along with Indo-European partners, which are providing cutting edge internship opportunity for students along with industrial and cultural exposure.

Indo-Euro Synchronization is an initiative created by a group of experienced technical and business professionals to connect India and Europe closer together.

With our diverse and wide set of knowledge about both the Indian and European academic and business environment, our aim is to form a technological transfer bridge between all participants. Through our activities, we strive to create a better technological future by enabling closer collaboration and knowledge exchange between universities, companies, supporting organizations and students from India and Europe.

We believe that three elements are required for a closer common development: Educational programs, research partnerships and cluster collaborations.

Our educational programs are executed in partnership with leading universities, allowing Indian students and professionals to travel to Europe. Participants gain a comprehensive insight into the local industrial situation while at the same time enhancing their professional skills and career prospects through additional education. www.indoeurosync.com

PROGRAMME**AT ARAI, INDIA****Day 1: Monday, 19th June 2017**

- 08.30 - 09.00 - Registration
- 09.00 - 09.30 - Inauguration & Welcome Address
- 09.30 - 11.00 - Introduction to Automotive Engineering (Dr. S.A. Patil, Dy. General Manager, Academy, ARAI, Pune)
- 11.00 - 11.15 - Tea Break
- 11.15 - 13.00 - Engine Design & Development (Dr. Sushil S. Ramdasi, General Manager, Powertrain Engineering, ARAI, Pune)
- 13.00 - 14.00 - Lunch
- 14.00 - 15.30 - Engine Combustion (Dr. Brijesh Patel, Dy. Manager, Academy, ARAI, Pune)
- 15.30 - 17.00 - Alternate Fuel Technology (Dr. S. S. Thipse, Dy. Director, Powertrain Engineering, ARAI, Pune)
- 17.00 - Conclusion

Day 2: Tuesday, 20th June 2017

- 09.00 - 11.00 - Electric & Hybrid Vehicles (Dr. S.A. Patil, Dy. General Manager, Academy, ARAI, Pune)
- 11.00 - 11.15 - Tea Break
- 11.15 - 13.00 - Fuel Cell Vehicle Technology (Bhavesh Javale, Research Engineer, Academy, ARAI, Pune)
- 13.00 - 14.00 - Lunch
- 14.00 - 15.30 - Automotive NVH (Kiran Wani, Manager, Academy, ARAI, Pune)
- 15.30 - 17.00 - Automotive Safety & Future Trends (Sumukh Deshpande, Manager, Passive Safety Laboratory, ARAI, Pune)
- 17.00 - Conclusion

Day 3: Wednesday, 21st June 2017

- 09.00 - 11.00 - On Board Diagnostics (OBD) (Manish Ingale, Dy. Manager, Academy, ARAI, Pune)
- 11.00 - 11.15 - Tea Break
- 11.15 - 13.00 - Automotive Testing & Certification (Mohd. Rafiq Agrewale, Dy. Manager, Academy, ARAI, Pune)
- 13.00 - 14.00 - Lunch
- 14.00 - 15.00 - Overview of Emission Control & After Treatment Devices (Dr. K. C. Vora, Sr. Dy. Director, Academy, ARAI, Pune)
- 15.00 - 15.30 - Test
- 15.30 - 16.30 - Summary, Discussions & Feedback
- 16.30 - 17.00 - Valedictory Function & Certificate Distribution
- 17.00 - Conclusion

AT CHEMNITZ, GERMANY

Thursday, 22nd June, 2017 - Traveling to Germany
Information about Germany an Autosol programme by IES.

Day 1: Friday, 23rd June 2017

Manufacturing Plants visit to Mercedes Benz & Porsche

Day 2: Saturday, 24th June 2017

Technical Museum Tours

Day 3: Sunday, 25th June 2017

Traveling to Chemnitz / Aachen

Day 4: Monday, 26th June 2017

- 09.30 - 13.00 - Advanced Automotive Test Drive Systems (Prof. Dr.-Ing. Thomas von Unwerth, Head of the Department of Advanced Powertrains, Chemnitz University of Technology, Germany)
- 13.00 - Lunch
- 14.00 - 17.00 - Advanced Powertrain Systems (Prof. Dr.-Ing. Thomas von Unwerth)

Day 5: Tuesday, 27th June 2017

- 09.30 - 13.00 - Hydrogen Fuel Cell Technology in Automobiles (Prof. Dr.-Ing. Thomas von Unwerth, Head of the Department of Advanced Powertrains, Chemnitz University of Technology, Germany)
- 13.00 - Lunch
- 14.00 - 17.00 - Demo of Hydrogen Fuel Cell (Prof. Dr.-Ing. Thomas von Unwerth)

Day 6: Wednesday, 28th June 2017

- 09.30 - 13.00 - Human Body Centric Application in Automotive Engineering
 - Automotive Seating Systems
 - Dynamic Implication of Automotive Application on Human Body
 (Prof. Dr.-Ing. Stephan Odenwald, Chemnitz University of Technology, Germany)
- 13.00 - Lunch
- 14.00 - 17.00 - Laboratory Assignment of Human Centric Lab Operation & Hands on Experience on Automotive Interior Design (Prof. Dr.-Ing. Stephan Odenwald)

Day 7: Thursday, 29th June 2017

- 09.30 - 13.00 - Automotive Structure Design & Testing (Prof. Dr.-Ing. Stephan Odenwald)
- 13.00 - Lunch
- 14.00 - 17.00 - Demo in Automotive Structural Laboratory (Prof. Dr.-Ing. Stephan Odenwald)
- 19.00 - 07.00 - Aachen - Paris by Bus

Day 8: Friday, 30th June 2017

- 06.00 - 09.30 - Refresh
- 09.30 - 17.00 - Cultural Exchange Paris Tour (Optional)
- 19.00 - 06.00 - Paris - Frankfurt

Day 9: Saturday, 1st July 2017

Departure from Frankfurt to India

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