

ISO 9001, ISO 14001, OHSAS 18001 and NABL Accredited R&D Institute

VISION

To be one of the world's esteemed training & education academies for advanced education & research in the field of mobility engineering.

VELLORE INSTITUTE OF TECHNOLOGY UNIVERSITY VELLORE TAMIL NADU 632 014, INDIA Offers a course in B.Tech (Mechanical Engineering) with Specialization in Automotive Engineering M.Tech. (Automotive Engineering)

in collaboration with

ARAI ACADEMY

THE AUTOMOTIVE RESEARCH

ASSOCIATION OF INDIA, PUNE



MISSION

To train, educate and enrich knowledge base of mobility engineers through Industry-Academia interaction with an aim to develop human resources for ever expanding mobility sector.

DETAILS OF B.TECH/M.TECH (AUTO) COURSE AT VIT / ARAI

OBJECTIVE: These programs intend to develop a new breed of automotive engineers required for the task of design & development in the automotive industry. The final year is spent at ARAI Academy of ARAI, Pune

B.Tech – Breakup & Credit:			M.Tech – Core Subjects:		
Engineering Humanities	60 10		First Year at VIT	Second Year at ARAI	
Management Sciences Total	05 25 100%		 Advanced Mathematical Methods Technical English (or)Foreign Language Automotive Body and Chassis Systems Engine Combustion and Emission 	 Alternate Fuels Engine Design and Development Automotive Emission Control Vehicle and Engine Testing 	
Some Special Subjects:- • Engineering Mechanics • Mechanics of Solids and Fluids • Materials Engineering and Technology	Some Special Electives:- • Design of Chassis Component • Vehicle Body Engineering • Two and Three Wheeler • Vehicle Inspection & Mainter	S Vehicle Dynamics Noise, • Automotive Electrical and Electronics Project		 Vehicle Safety and Lighting Noise, Vibration and Harshness Soft Skills Project 	
 Engineering Thermodynamics Thermal and Heat Transfer Manufacturing Processes Mechanics of Machines Automotive Electricals & Electronics Automotive Engines Automotive Chassis Automotive Transmission Systems 	 Engine Emission and Control Auto Certification & Homologation 		Some Special Electives:- • Powertrain Tribology • Hybrid Electric Vehicles • Computational Fluid Flow and Heat Transfer • Finite Element Analysis & Methods • Vehicle Maintenance and Diagnostics • Vehicle Aerodynamics • Vehicle Aerodynamics • Vehicle Crashworthiness • Design of Vehicle Drivelines • Battery and Fuel Cell		

The Students will do their 6 month project either at ARAI, University or at any automotive & allied Industry.

INFRASTRUCTURE:

• VIT has excellent infrastructure like the CAD/CAM Centers, Central Library, Computing Center to name a few. The Mechanical Engineering Department started in 1984, was renamed as the School of Mechanical & Building Sciences (SMBS) when VIT received the Deemed University status in 2001. It has well equipped laboratories like the Fluid Mechanics Lab, Thermal Engineering Lab, Advanced Manufacturing Process Lab, Tribology and Machine Dynamics Lab. A state-of-theart Automotive Research Center was setup, with financial funding from DST, New Delhi in 2003 and the Center for Engineering Design, Automotive & Manufacturing Engineering was set up in 2012.

• ARAI is a well-known Automotive Research, Development, Testing & Certification Institute in the country. It has state-of-the-art testing facilities and laboratories like the PowerTrain Engineering Lab, Emission Certification Lab, Safety & Homologation Lab, Passive Safety Lab, Vehicle Evaluation Lab, Structural Dynamics Lab, Automotive Electronics Lab, Automotive Materials Lab and NVH & CAE Lab. The students are exposed to the latest trends, which help them to meet the requirements of the Automotive Industry.

For B. Tech (Mechanical Engineering with specialization in a th First class in 12 with a valid VIT Engineering Entranc		For M. Tech (Automotive Engineering) B.E/B.Tech/AMIE in Mechanical/Automobile/Production/Manufacturing Engineering or Mechatronics, with a valid VIT Masters Entrance Examination (VITMEE) Score. Preference is given to industry sponsored candidates.				
Tuition Fees: B. Tech : Approx. 1,55,000	0/- + others per year.	For M. Tech : Approx. 1,53,000/- + others per year.				
Hostel accommodation & Mess facility available at VIT University. HOW TO APPLY : Application forms can be downloaded from VIT University website or can be obtained by contacting:						
Director - UG Admissions VIT University Vellore-632 014 Tamil Nadu, India. Phone: + 91-416-220 2125, 220 2168 Fax: +91-416-224 5544, 224 5766 Email: ugadmission@vit.ac.in Website: www.vit.ac.in	Director - PG Admissions VIT University Vellore-632 014, Tamil Nadu, India. Phone: + 91-416-220 4600, 220 4700 n Fax: +91-416-224 5544, 224 9955 Email: pgadmission@vit.ac.in Website: www.vit.ac.in		Pr. K. C. Vora ir. Deputy Director & Head, ARAI Academy, RAI, S. No. 102, Vetal Hill, Off Paud Road, iothrud, Pune 411038. iel: (020) 30231240 / 41 Fax No. (020) 30231104 mail: vora.pga@araiindia.com Vebsite: www.araiindia.com			
A Place to learn; A Chance to grow						