

Internal Combustion Engines Laboratory

Laboratory Coordinators: Prof. M. Srinivas (morasrini@hyderabad.bits-pilani.ac.in)

Laboratory Technical Assistant: Mr. Ch. Srinivasa Rao

Location: Workshop-II



The laboratory is equipped with number of equipment & experimental setups to study the fundamental & applied aspects of the internal combustion (IC) engines. The laboratory facilitates experimental based performance evaluations of a wide variety of IC engines using a wide variety of fuels including the 2nd, 3rd and 4th generation Biofuels. It also facilitates evaluation of exhaust smoke and emissions of IC engines and EOBD, ECU Diagnosis, Components Tests of IC engine based transport vehicles. With wide varieties of engines, associated computer assisted equipment, dynamometers the lab caters to the needs of all tiers of students of BITS Pilani viz. undergraduate, post graduate and research students. With the state-of-the-art equipment, the lab is well equipped to undertake any consultancy work related to IC engines and vehicle performance testing which work on conventional fuels as well as Bio fuels. Available equipment include: AVL Ditest MDS 650 INT(Set); Single Cylinder Two Stroke Petrol Engine; Twin Cylinder Four stroke Diesel Engine; Computerized single Cylinder 4 Stroke petrol engine Test Rig; Computerized single Cylinder 4 Stroke petrol engine Test Rig; Computerized single Cylinder 4 Stroke Water cooled Diesel engine Test Rig; Double stage Air Compressor Test Rig; Cut Section Model of Maruti 800 Engine; Model of Hydraulic Brake Unit; Four Cylinder-Four Stroke Petrol Engine Test Rig; Single Cylinder Four Stroke Water Cooled Diesel Engine Test Rig.