

Medi-Caps University, Indore
Madhya Pradesh, India
Summer Training Program
on
Automotive Vehicle Familiarization and Repair

Overview of summer training

This training aims to provide a practical exposure on an automobile vehicle, which enables students to gain knowledge of different parts of a vehicle and their functionality. This enables students to have hands on experience on the assembly, disassembly and working of the components. Furthermore, students enhance methodological skills by understanding the smallest links of vehicle technology. The training is divided into the sequential assembling of parts of a two wheeler petrol vehicle. The sole purpose is to make an engineering student familiar with machines used in day to day life. Since the two wheelers are commonly used and are abundantly available machine in our surroundings, there are many opportunity to resolve problems related to it. The capability to judge any fault in this machine leads to a positive attitude as an engineer to judge any machine in future.

The department of Mechanical Engineering is organizing a one month summer training program on “**Automotive Vehicle Familiarization and Repair**” from 14 June to 09 July, 2021. In this training program the student will learn about the basic components and also technical aspects of the two wheeler vehicle. The candidate applying for this training program must have the basic knowledge of automobile and mechanical engineering. It is applicable for B. Tech. students of branches ME, AU and FT.

Tentative Schedule

	S. No.	Topic
WEEK 1	1	Introduction of Basic vehicle parts and Assembly (precisely 2 wheeler)
	2	Individual parts, their functions and working as per new and old models of 2 wheelers
	3	Introduction to Engine, Gear Box and CVT
	4	Carburettor, Air Filter, Fuel Pump and Fuel Injector
	5	Radiator and sensors attached to it. Electrical wiring and Electrical components (two wheeler)
	6	ABS and other BS6 up gradation in two wheelers
Week 2	1	Introduction to Vehicle service, their tools and equipments used
	2	Dual Clutch, CVT,
	3	Engine oil, Air and Oil filters, and their Adjustments
	4	Chain drive, Fuel tank, hydraulic brakes, clutch cable, Battery terminals service and conditioning
	5	condition of chasis (rusting), main bearings/pins wear out, shockup

		fork and steering check nut adjustments
	6	Tyres specifications of 2 and 4 wheelers ,the terminology used and 4 wheelers Alignment
Week 3	1	Introduction to Repair and service of 2 wheelers common parts (on breakdown)
	2	Assembly demonstration of Engine Head of gasoline Engine (two wheelers)
	3	Assembly demonstration of Clutch Side all components
	4	Assembly demonstration of Magneto Side all components
	5	Assembly demonstration of Fuel related components (fuel pump,fuel injector, throttle body and carburettor)
Week 4	1	Basic vehicle Problem identification and Diagnos as per observation
	2	Case studies of vehicle breakdown and Failure (Engine)
	3	Case studies of vehicle breakdown and Failure (Radiator)
	4	Case studies of vehicle breakdown and Failure (Fuel supply system of BS 6 two wheelers)
	5	Case studies of vehicle breakdown and Failure (Electrical failure)
	6	Final viva of individual trainee for their evaluation before providing the certificates

Registration Details

1. Fill the Registration Form available at our website www.medicaps.ac.in.
2. Registration link: <https://forms.gle/4HXyt1fruTwt3wW36>
3. The selection of students to any training module is on first come first serve basis.
4. Maximum no. of seats: 60
5. The participants can pay registration fees through Internet transfer, the details are:

Bank: IDBI

A/C No: 0001104000600323

A/C Name: MEDI-CAPS UNIVERSITY-CEP

IFSC Code: IBKL0000001

Contact

For Summer Training Related Queries:

The candidates may mail to:

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Trainer(s):

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