



JAIDEV EDUCATION SOCIETY'S
J D COLLEGE OF ENGINEERING AND MANAGEMENT
Department of Electrical Engineering
"Igniting minds to illuminate the world"
Institutions of Engineer India
Students Chapter Electrical Engineering
SESSION: 2018-19(ODD)

One Page Report on Guest Lecture

Title: Electrical Architecture of Automobile

Speaker Name: Mr. Gaurav A. Chanadak

Organization: Acme Technology, Aurangabad

Post: Head of Engineering Services and Manufacturing

Date: 08/08/2018

No. of student Present: 90 (Second, Third, Fourth Year, E.E. Department)

Objective:

1. Make student identify and understand the Role of Electrical & Electronic Engineer in Automobile segment.
2. Build the understanding of working for two-wheeler.

Automobile sector is changing its clear from gasoline powered vehicles to electric vehicle because of several advantages in market competencies of electrical vehicle. Automobile sector is growing continuously fail here is increasing at the rate of 7 to 10 percent. In the importance of electrical engineer for wire harnesses is becoming imperative in the automobile sector.

The seminar started with the importance of wire harnesses and what exactly is the wire harness. The use of wire harness is wide in automobiles. Two wheeler three wheeler agriculture equipments, traction equipment, construction equipment consist of the automobiles. Every automobile has a wire harness which is a nervous system in it.

The various automotive components in automobile are battery, ignition switch, self start switch, real solenoid, Starter Motor, Magneto, regulator rectifier, ignition system.

These all components make the electrical architecture of any automobile possible. The seminar mainly signifies how power flows from battery to ignition switch then to self start switch to many other components and at last The Spark is produced and engine start cranking everything was



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explained in detail. The various 2D and 3D diagram representations help the student to understand in detail function of each automotive component. The main intention of the seminar was students with the automobile functioning and with associated electrical architecture.

Outcomes:

1. Value and Recognize Electrical schematic and wire harness Design in Automobile.
2. Inspire student for Wire Harness Designing Opportunities.



Prof. Y. P. Mundhada

IEA In charge , EE

Prof. S.R. Gupta

HOD, EE

Prof. T. Mohota

IEA In charge, JDCOEM