

MECHATRONICS IN AUTOMOBILES

TANUJA P. MOTE¹, MEENAL. R. MAJGE² & GOURI. P. BRAHMANKAR³

¹Lecturer, E&TC Department, SVCP, Pune, Maharashtra, India

²Sr. Lecturer, E&TC Department, SVCP, Pune, Maharashtra, India

³Lecturer, E&TC Department, SVCP, Pune, Maharashtra, India

ABSTRACT

Technical products realize the need of integrating mechanics with digital electronics and information processing. This results into an integrated system called mechatronic system. Mechatronics has a lot of influence on a large variety of products in the area of mechanical, electrical and electronic engineering. It has changed the basic design, for example, of conventional electromechanical components, machines, vehicles and precision mechanical devices with increasing intensity. The main objective behind is to build smart products and “intelligent” machines. This paper presents about the elements of mechatronic system and its evolution in the field of automobiles. With the automation in technology, automobiles seem to be our basic need in day-to-day life. We expect better performance, safe drive, user friendly and security in the ongoing development of Automobiles. Modern mechatronics can be applied to make these expectations come true with smarter mechanisms, via improved efficiencies, speed controls and system interaction. This paper highlights on some of the mechatronic systems used in automobiles.

KEYWORDS: Mechanical, Electronics, Mechatronic, Sensors, Actuators, Automobiles