



# **SNS COLLEGE OF TECHNOLOGY**

**(An Autonomous Institution)**

**COIMBATORE-35.**



Accredited by NBA – AICTE and Accredited by NAAC – UGC with ‘A+’ Grade  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai.

## **DEPARTMENT OF AUTOMOBILE ENGINEERING**

### **COURSE NAME : 16AU0302 - RECENT TRENDS IN AUTOMOBILES**

**III YEAR / VI SEMESTER**

**Unit 4 – Comfort Systems**

**Topic : Power Steering, Collapsible and Tilting Steering Column**



# INTRODUCTION TO STEERING SYSTEM



- The basic function of the steering system is to allow the driver to safely and precisely steer the vehicle.
- Beyond this, the steering system also provides a way to reduce driver effort by making the act of steering the vehicle easier.





## STEERING SYSTEM IN OTHER VEHICLES ???







# NEED FOR POWER STEERING





# TYPES OF STEERING SYSTEM

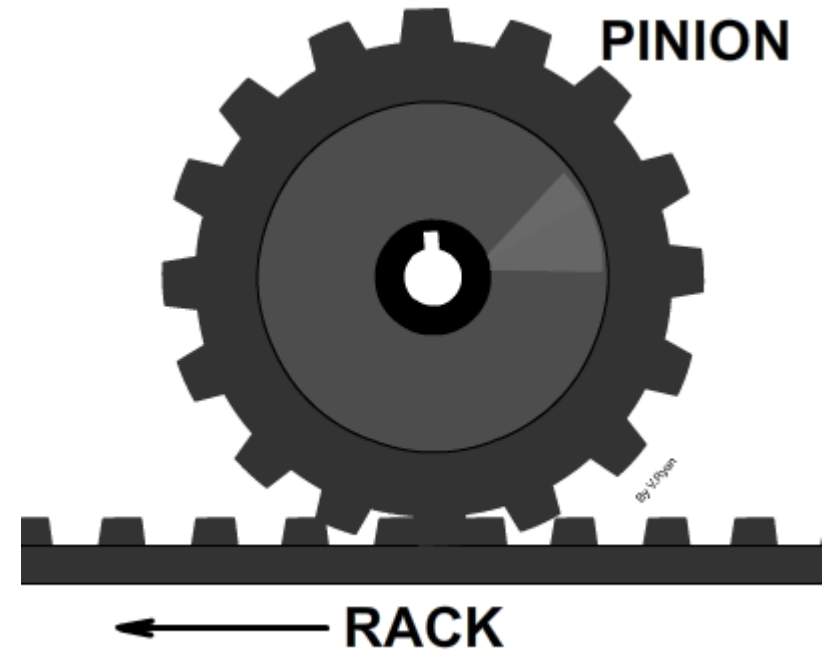
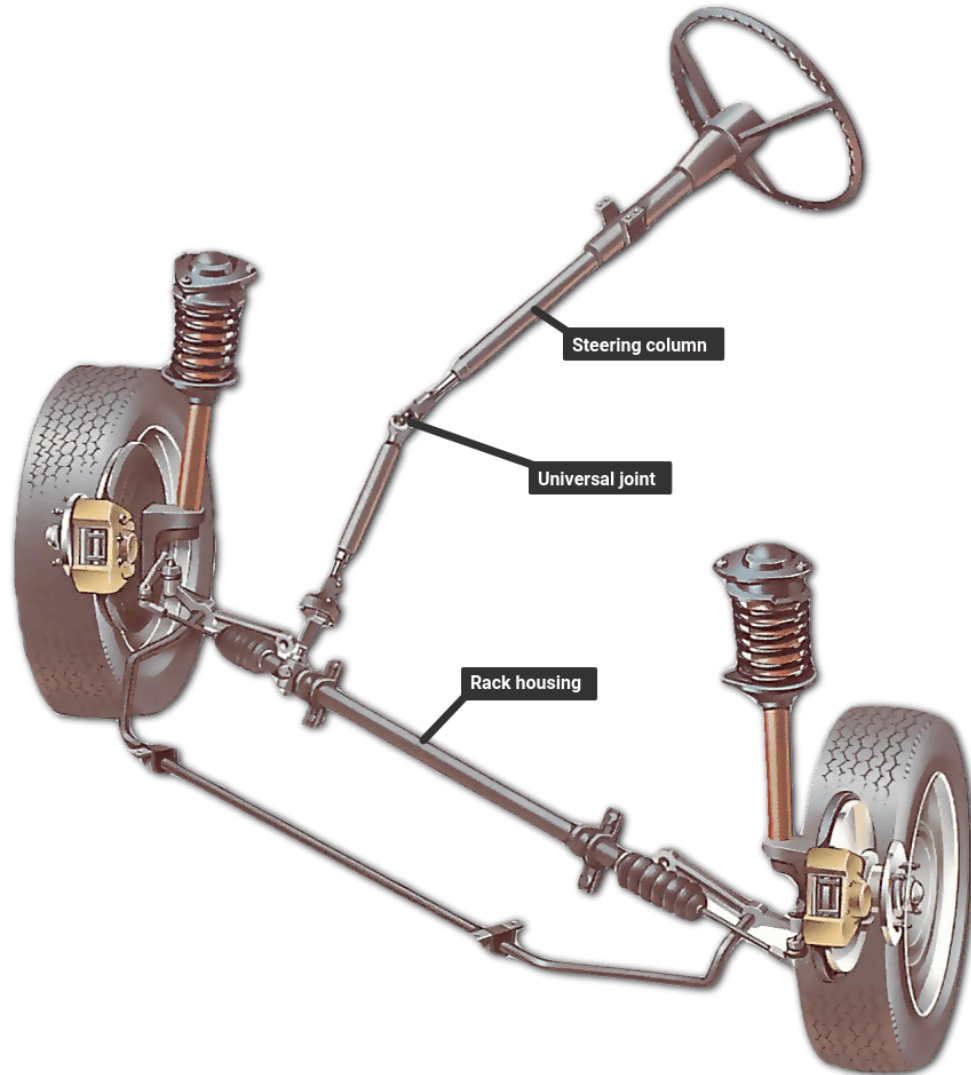


- Manual Steering System
- Power Steering System
  - ❖ Hydraulic Power Steering System
  - ❖ Electronic Power Steering
  - ❖ Electro Hydraulic Steering System





# LAYOUT OF NORMAL STEERING SYSTEM



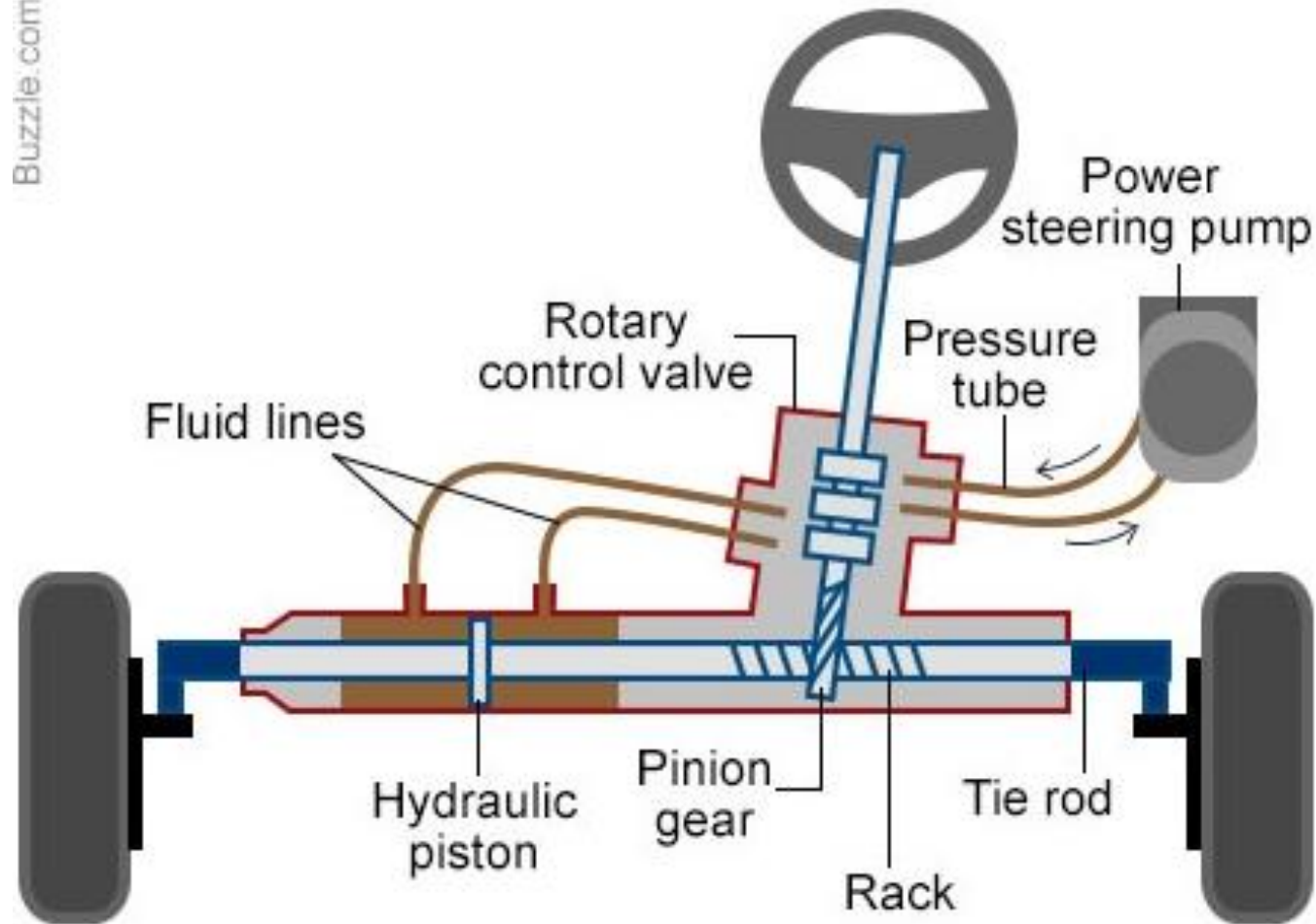




# HYDRAULIC POWER STEERING



Buzzle.com





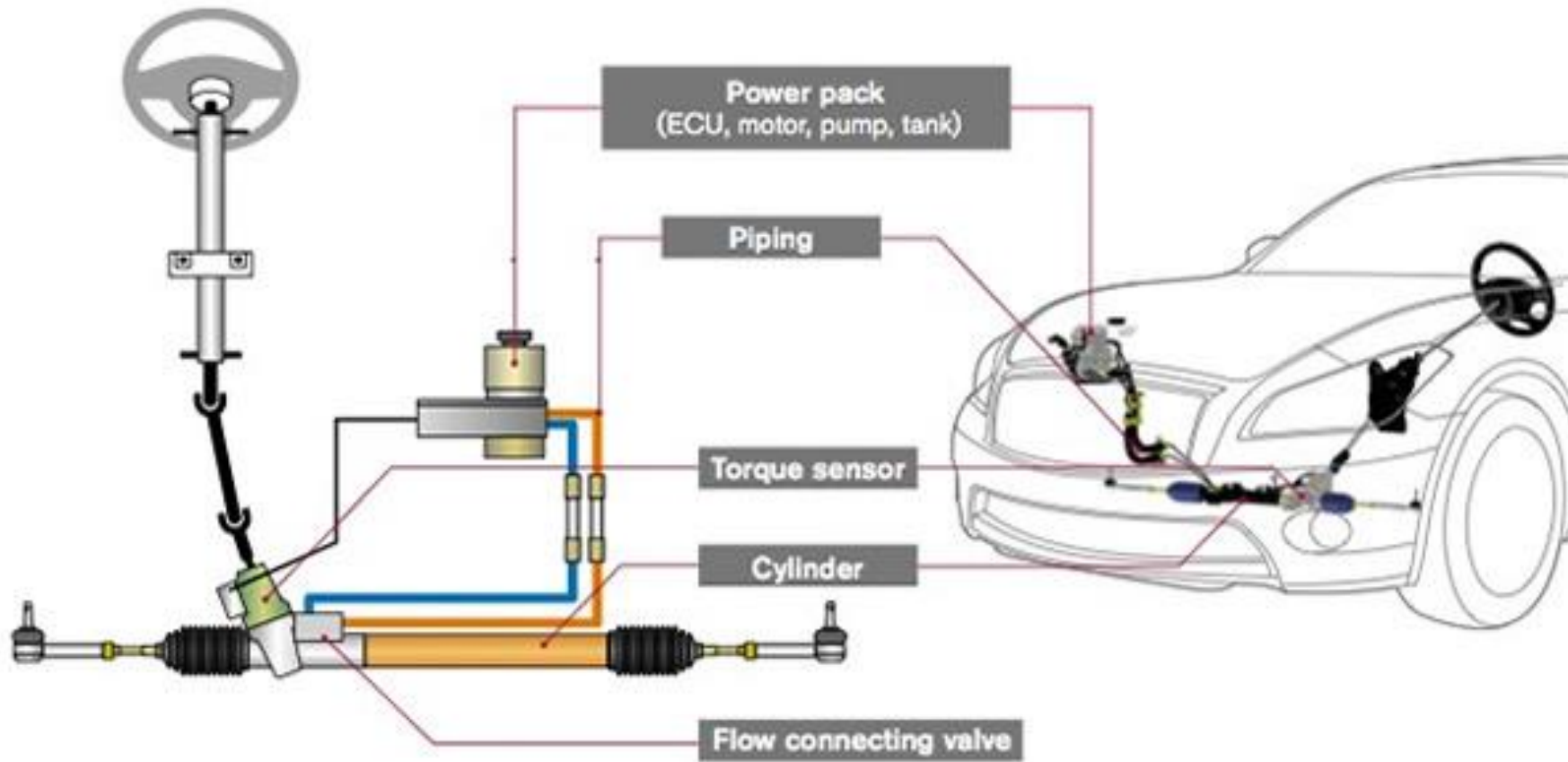
# ELECTRONIC POWER STEERING





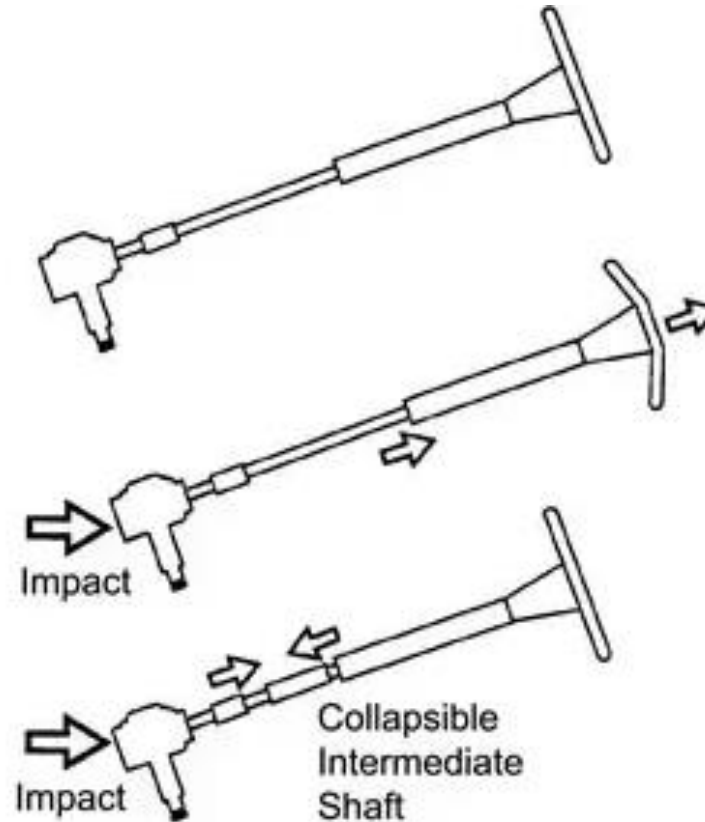


# ELECTRO HYDRAULIC POWER STEERING



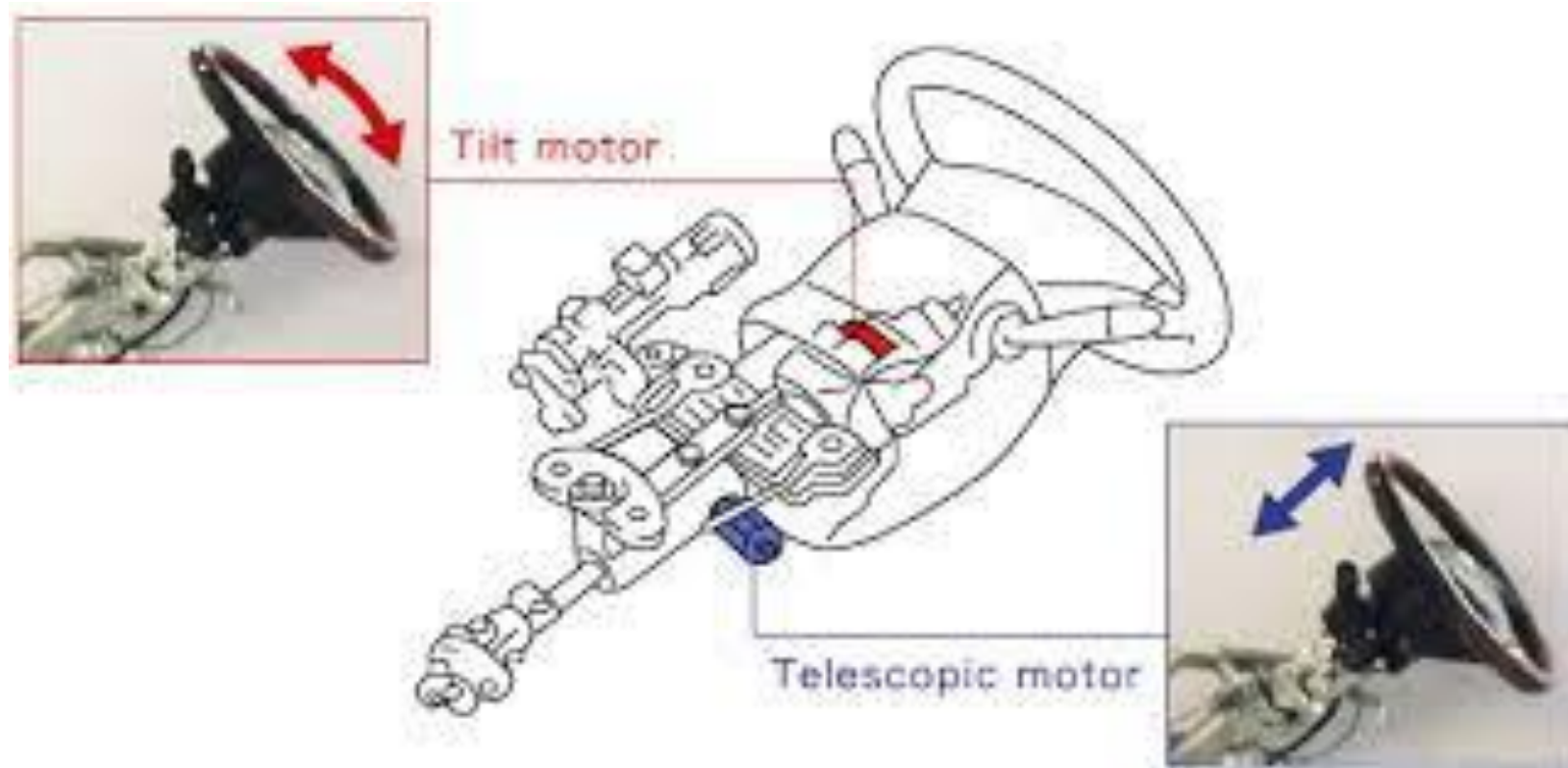


# COLLAPSIBLE STEERING COLUMN





# TILTABLE STEERING COLUMN





## REFERENCE



- <https://www.youtube.com/watch?v=PbUHP00pkWM&t=204s>





THANK YOU !!!