



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 : 19AUB202 – AUTOMOTIVE SYSTEMS

II YEAR / III SEMESTER

Unit 3 – Transmission System

Topic : Clutch



INTRODUCTION



- ❖ A clutch is a mechanical device used in vehicles to engage or disengage power transmission between the engine and the wheels.
- ❖ It allows the driver to control the vehicle's speed and power by connecting or disconnecting the engine from the wheels.





FUNCTION OF CLUTCH



- Engage and Disengage power
- Smooth Gear Change
- Control Speed and torque
- Prevents the engine from stalling when the vehicle comes to a stop or is idling



BASIC COMPONENTS OF CLUTCH



- Clutch Plate
- Pressure Plate
- Clutch Release Bearing
- Clutch Pedal and Linkage
- Diaphragm Spring



TYPES OF CLUTCHES



- Friction Clutch
 - ❖ Single Plate Clutch
 - ❖ Multi Plate Clutch
- Cone Clutch
- Centrifugal Clutch
- Wet Clutch
- Dry Clutch
- Pneumatic Clutch
- Hydraulic Clutch



SINGLE PLATE CLUTCH





MULTI PLATE CLUTCH



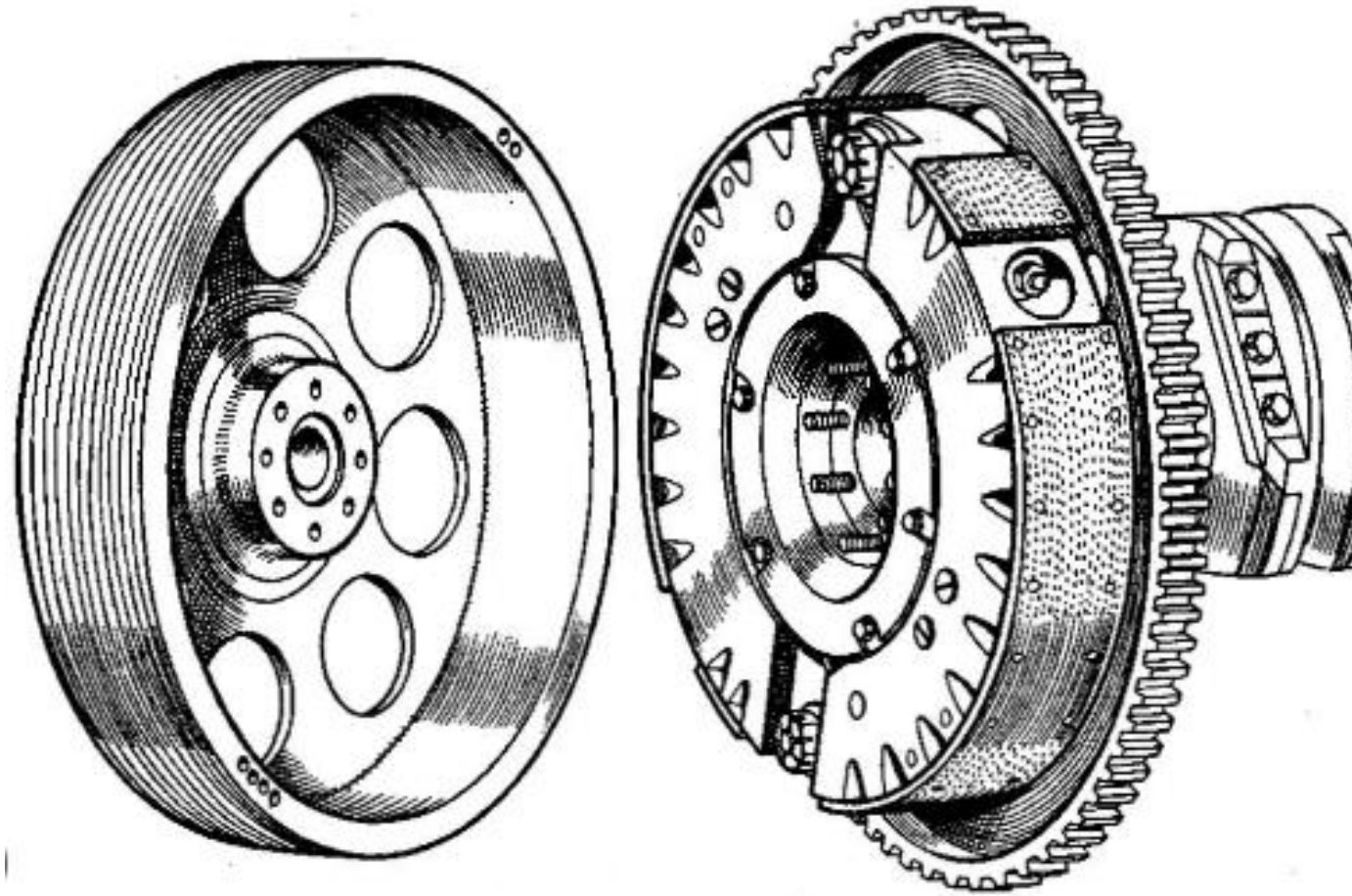


CONE CLUTCH





CENTRIFUGAL CLUTCH





THANK YOU !!!