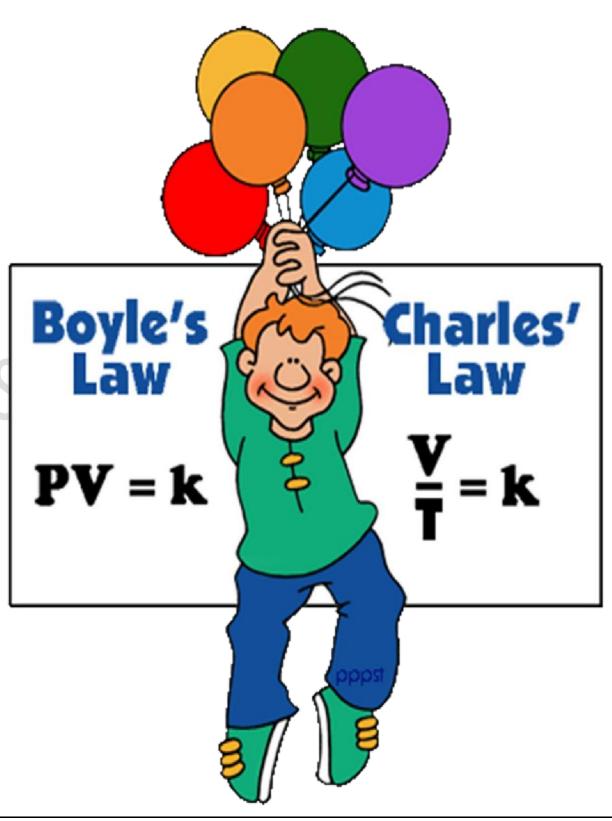
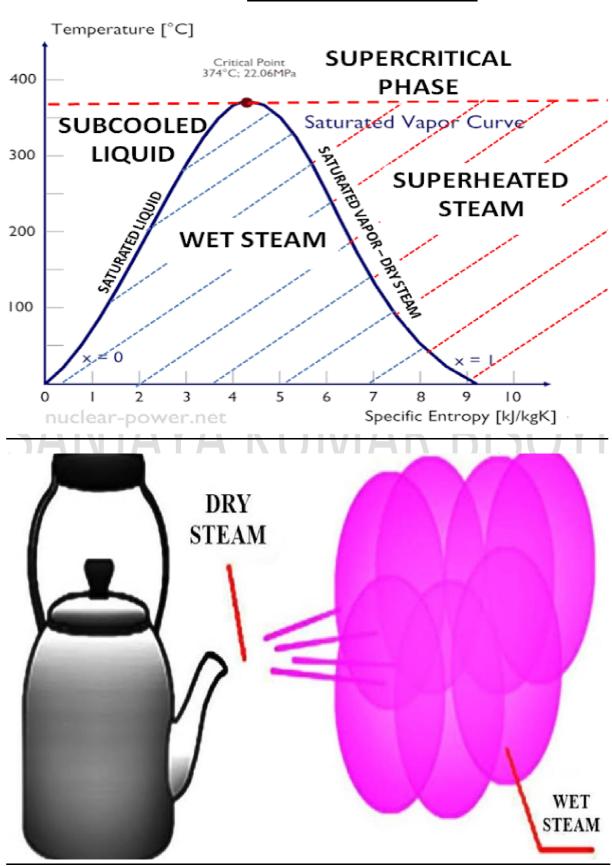
## TEACHING AND LEARNING MATERIAL

SUBJECT: EME SEMESTER:3<sup>RD</sup>

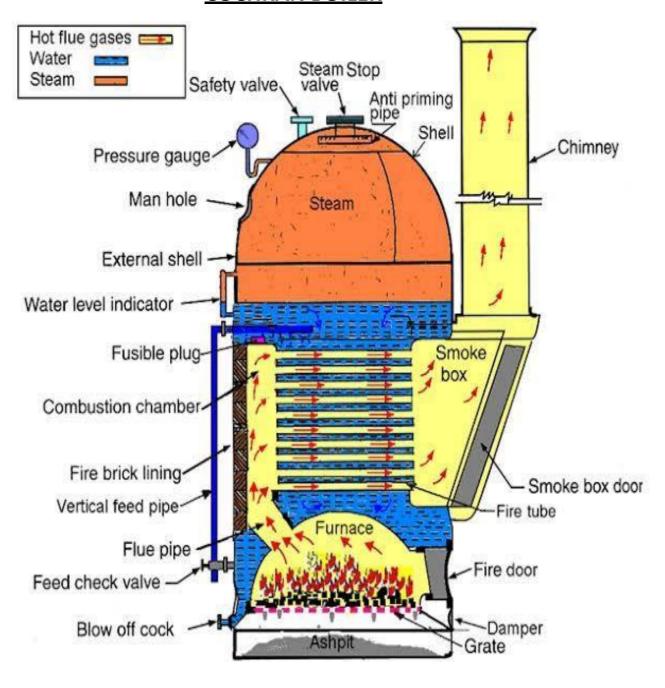




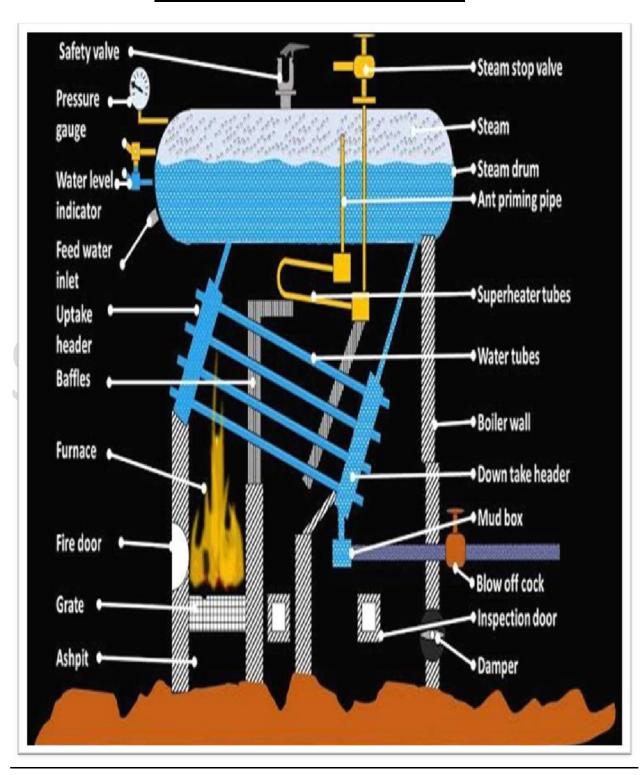
#### **PROPERTIES OF STEAM**



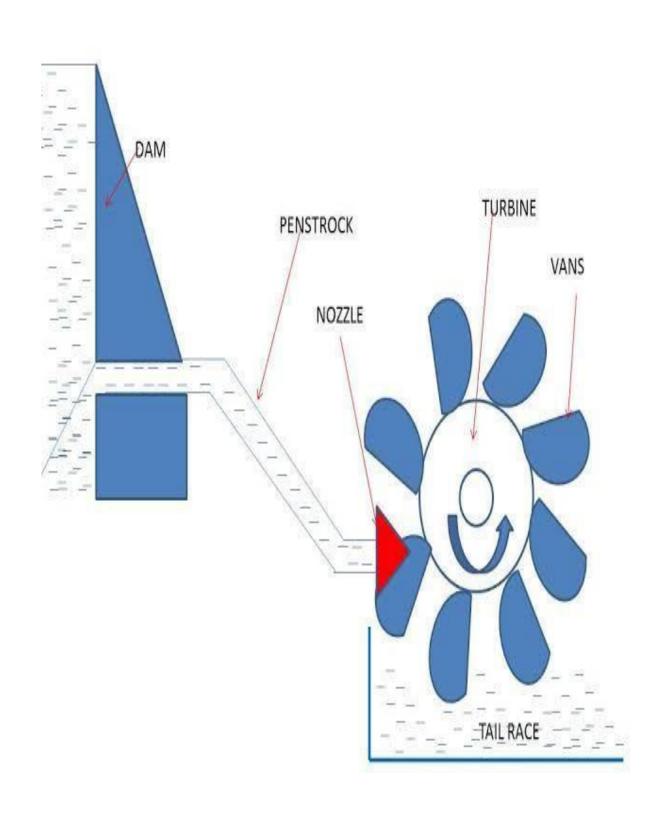
## **COCHRAN BOILER**

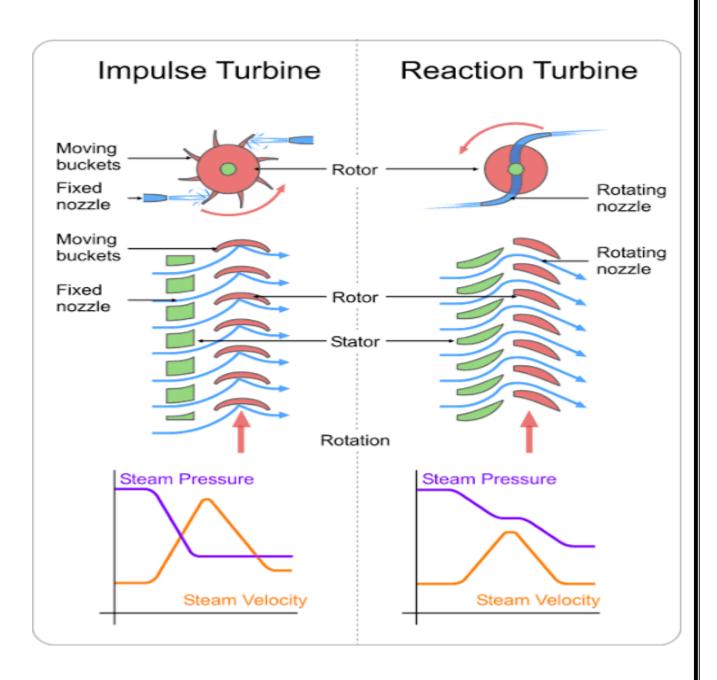


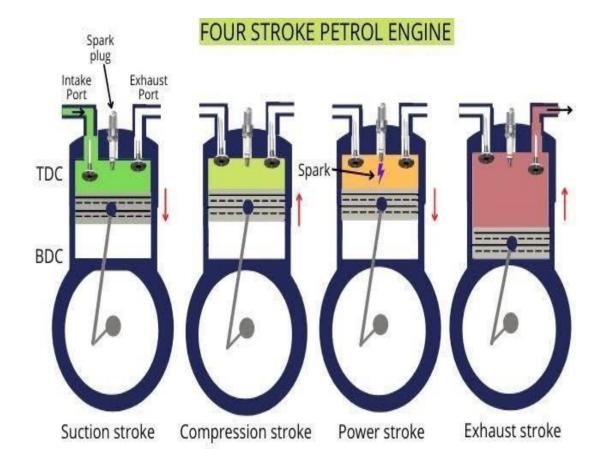
## **BABCOCK AND WILCOX BOILER**

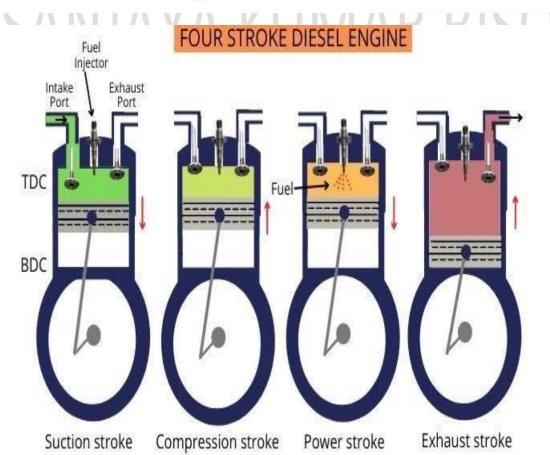


## **IMPULSE TURBINE**



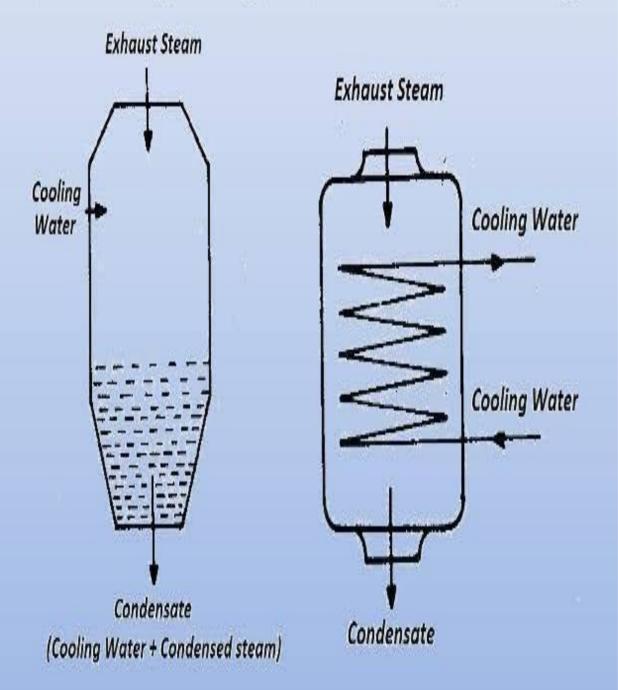


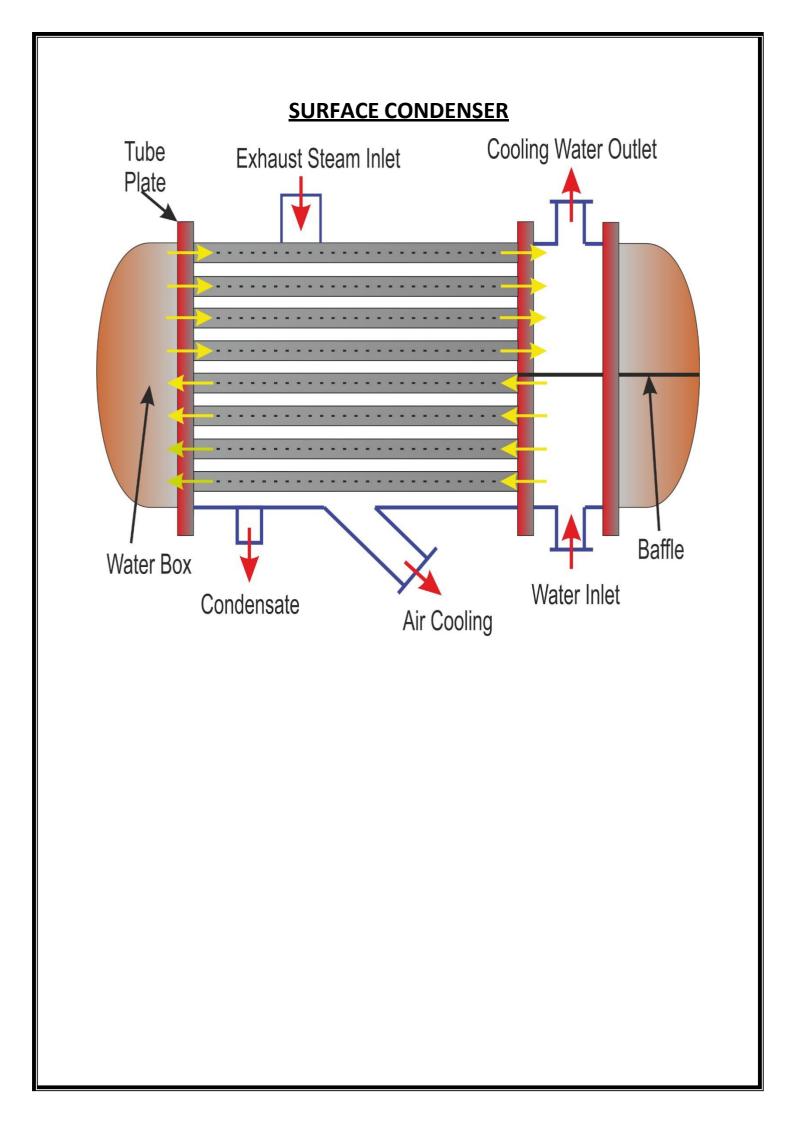


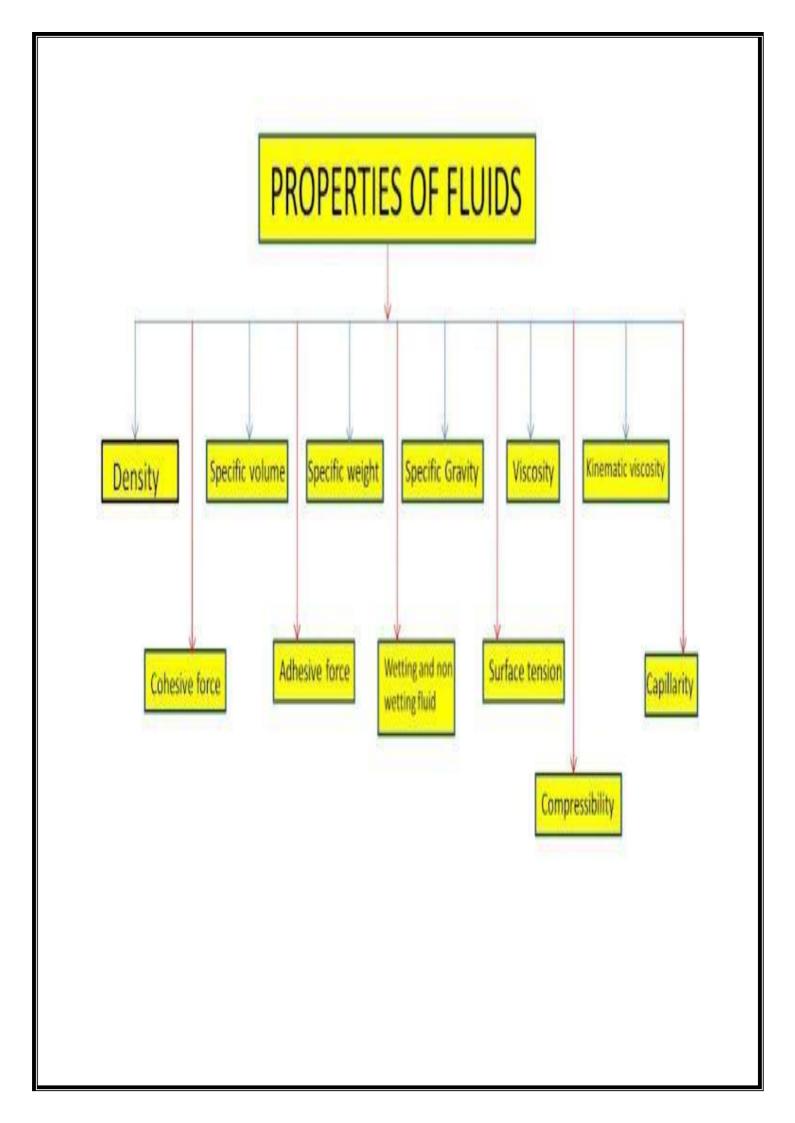


# Jet Condenser Vs Surface Condenser

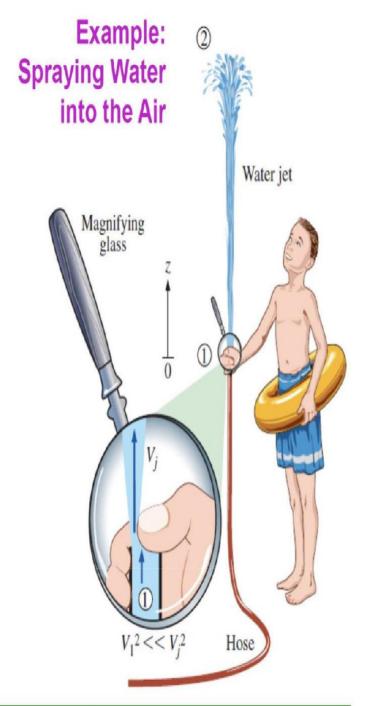
Jet Condensers (Direct Contact type/Mixed type) Surface Condensers (Indirect Contact type/Non-Mixed type)







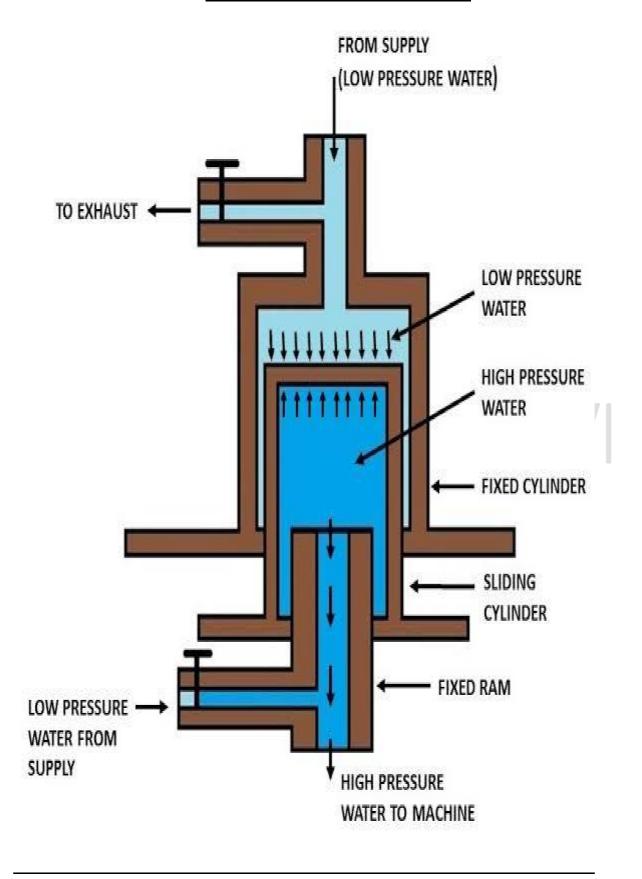
## **BERNOULLI'S EQUATION**



$$\frac{P_1}{\rho g} + \frac{V_1^2}{2g} + z_1 = \frac{P_2}{\rho g} + \frac{V_2^2}{2g} + z_2 \rightarrow \frac{P_1}{\rho g} = \frac{P_{\text{atm}}}{\rho g} + z_2$$

# **HYDRAULIC LIFT** Small force applied Large force produced

#### **HYDRAULIC INTENSIFIER**



### **HYDRAULIC RAM**

