Department of Mechanical Engineering
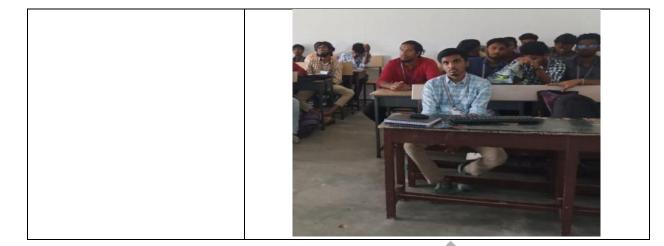**Innovative Teaching Methods**

Activity Title	Quiz
Faculty Name/Department	Dr.A. Saravanan / Mech
Mapped Course Name & Code	ME8694 - Hydraulics and Pneumatics
Date	27.04.2023
Benefitted Students (Year / Sem / Dept)	IV / VII / Mech
Topic	Pneumatic
Description	I have tried to make the questions relevant toward the evaluation of the engineer who has a background in Pneumatic, saying that, knowing the answers to this quiz doesn't imply that one is capable of understanding the principles involved in pneumatics. *(Rule: No passing Questions)*
Course Outcomes (CO)	CO4 : Explain the working of different pneumatic circuits and systems
Performance Indicator (PI)	1.3.1
Mail ID (for review)	mech.saravanan_a@msajce-edu.in
Activity Photos	

Topics/ Questions:

1. Which one of the following systems is an open loop system

a) Hydraulic system

b) Pneumatic system

c)Both a and b

d)None of the above

2. Which one of the following is used in pneumatic systems

 a) Compressors

 b) Pumps

 c)Both a and b

 d)None of the above

3. Which one of the following systems is free from fire hazards

 a)Hydraulic system

 b)Pneumatic system

c)Both a and b

 d)None of the above

4. Which one of the following components is used to store certain volume of compressed air

 a)Air tank

 b)Compressor

 c)Valves

d)All of the above

5. The pneumatic conveying is categorised into _____ types.

a) One

 b)Two

 c)Three

 d)Four

6. What are the advantages of pneumatic controller

 a)Easy maintainability

 b)Low cost of installation

 c)Good reliability

d)All of the above

7. Which one of the following valves is a type of valve according to type of construction.

 a) Manual actuation

 b)Poppet valve

 c)Mechanical actuation

 d)All of the above

8. Which one of the following is a part of pneumatic timer

 a) One way flow control valve

 b) Accumulator/air reservoir

 c)3/2 way pneumatically operated directional control valve

 d)All of the above

9.The ratio of isothermal work divided by actual work is known as _____ efficiency

 a)Isothermal

 b)Volumetric

 c)Polytropic

 d)None of the above

10. Which one of the following compressors is a type of turbo compressor.

a) Centrifugal

 b) Piston

 c)Twin screw

 d)All of the above

11. Which one of the following components is used to control air direction, flow rate, and pressure

 a) Air tank

 b) Compressor

 c)Valves

 d)All of the above

12. Which one of the following compressors is not a type of turbo compressor

 a) Centrifugal

 b) Axial flow

 c) Twin screw

 d) All of the above

13. How many types of pneumatic valves are there

a) One
b)Two
c)Three
d)Four

14. Which one of the following is a energy transfer element of hydraulic system

 a)High pressure air
 b)High pressure liquid
c)Electrical motor
 d)None of the above

15. The rotary type of compressors is categorised into _____ types

 a) One
 b)Two
 c)Three
 d)Four

16. In how many methods we can transmit the power.

a) One
b) Two
c) Three
d) Four

17. What are the advantages of pneumatic systems.

a) High effectiveness

b) High durability

c) Simple design

d) All of the above

18. Which one of the following systems is easy to operate valves

a)Hydraulic system

b)Pneumatic system

c)Both a and b

d)None of the above

Marks:

Group Name (if ITM is a group activity)	Reg No.	Topic	Marks
TEAM A	311819114001	Pneumatic System	25
	311819114002		
	311819114003		
	311819114004		
	311819114005		
TEAM B	311819114006		10
	311819114007		
	311819114008		
	311819114009		
	311819114010		
TEAM C	311819114011		20
	311819114013		
	311819114014		
	311819114015		

	311819114016		
TEAM D	311819114011		25
	311819114013		
	311819114014		
	311819114015		
	311819114016		
TEAM E	311819114017		20
	311819114018		
	311819114019		
	311819114020		
	311819114021		
TEAM F	311819114301		10
	311819114303		
	311819114304		
	311819114305		
	311819114306		
TEAM G	311819114307		30
	311819114308		
	311819114309		
	311819114310		
	311819114311		

Outcomes:

Hydraulics and Pneumatics allows you to get knowledge on different sources of developing the mechanical mechanisms using air compressed systems and Pneumatic system. This means students can gather different types of air developing systems and its importance of applications concerned to Mechanical systems. This improves the student's interest on the Internal Assessment Test.