

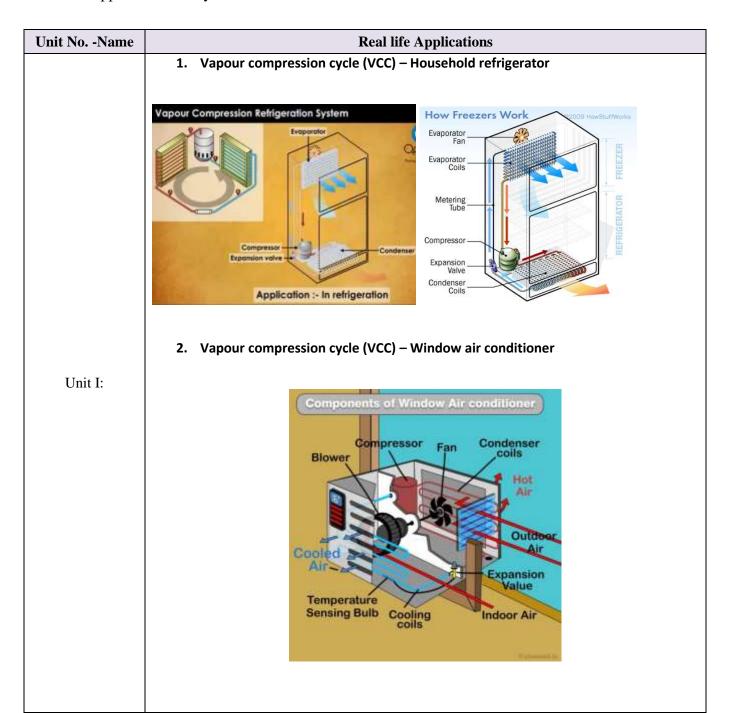


Record No.: **ZCOER-ACAD/R/16H** Revision: **00** Date:**01/04/2021** 

### **Unit Wise Real Time Applications/Live Examples**

**Department:** Mechanical **Semester:** II **Academic Year:** 2023–2024

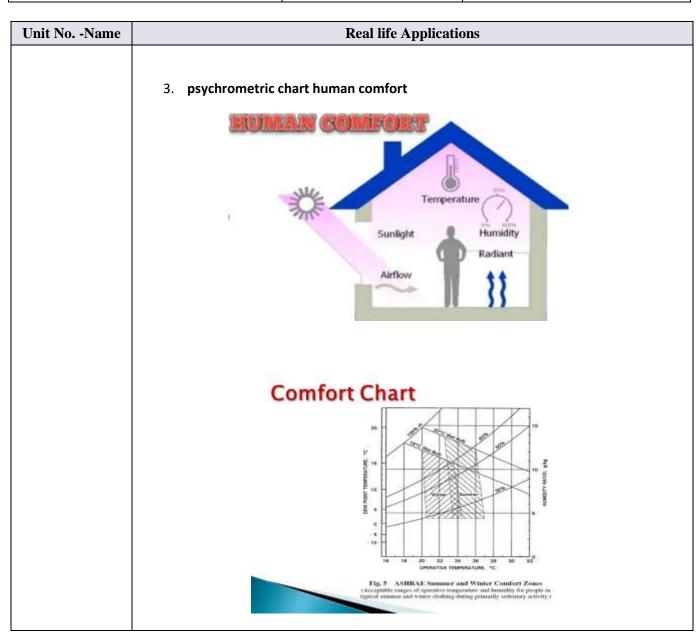
Class: SE Div.:







Record No.: **ZCOER-ACAD/R/16H** Revision: **00** Date:**01/04/2021** 







Record No.: **ZCOER-ACAD/R/16H** Revision: **00** Date:**01/04/2021** 

### **Unit Wise Real Time Applications/Live Examples**

**Department:** Mechanical **Semester:** II **Academic Year:** 2023–2024

Class: SE Div.: A

Unit NoName	Real life Applications
Cint 1407 14aine	4. Cylinder head – Top of cylinder
Unit II:	5. Cylinder – Piston reciprocate inside cylinder it withstands 70 bar pressure & 1400 $^{0}$ C





# Record No.: **ZCOER-ACAD/R/16H** Revision: 00 Date:01/04/2021 Unit No. -Name **Real life Applications** 6. Piston – Transfer gas force to connecting road 7. Connecting rod – Transfer gas force to crank







Record No.: **ZCOER-ACAD/R/16H** Revision: **00** Date:**01/04/2021** 

Unit NoName	Real life Applications
	8. Oil Sump – Used to collect lubrication oil.
	9. Crank shaft – crank convert reciprocating motion into rotary motion & transfer it output shaft (Crank shaft)





Record No.: **ZCOER-ACAD/R/16H** Revision: **00** Date:**01/04/2021** 

### **Unit Wise Real Time Applications/Live Examples**

**Department:** Mechanical **Semester:** II **Academic Year:** 2023–2024

Class: SE Div.: A

	Real life Applications	
Unit II:	Real life Applications  10. Carburetor – Mostly used in two wheelers like BAJAJ pulsar, Unicorn, Honda Shine, Activa etc. SU Carburetor – Bentley & Jaguar	





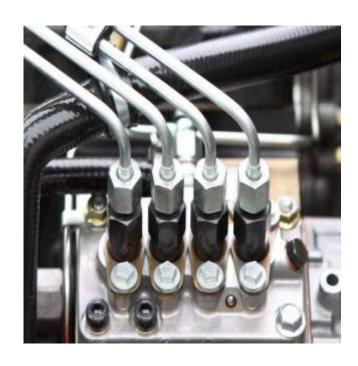
Record No.: **ZCOER-ACAD/R/16H** Revision: **00** Date:**01/04/2021** 

#### Unit No. -Name Real life Applications

11. Multi point fuel injection – Used in SI Engine (Multicylinder)



12. Fuel Injection system – Used in CI Engine







Record No.: **ZCOER-ACAD/R/16H** Revision: **00** Date:**01/04/2021** 

Unit NoName	Real life Applications	
	13. Combustion chamber – In order to create swirl following type of combustion chambers are used in CI engine.	
	Types of Combustion Chamber For C.I. Engine	
	Company of the compan	

**Prof. S. S. Borade** Course faculty





Record No.: **ZCOER-ACAD/R/16H** Revision: **00** Date:**01/04/2021** 

### **Unit Wise Real Time Applications/Live Examples**

**Department:** Mechanical **Semester:** II **Academic Year:** 2023–2024

Class: SE Div.: A

Unit No Name	Real life Applications	
Unit IV:	ENGINE PERFORMANCE PARAMETERS  Indicated Thermal Efficiency Brake Thermal Efficiency Wechanical Efficiency Volumetric Efficiency Relative Efficiency Mean Effective Pressure Mean Piston Speed Specific Power Output Specific Fuel Consumption  15. Turbocharger & Supercharger  TURBOCHARGER  COMPRESSOR SECTION  COMPRESSOR SECTION  COMPRESSOR SECTION  TURBOCHARGER  TURBO	



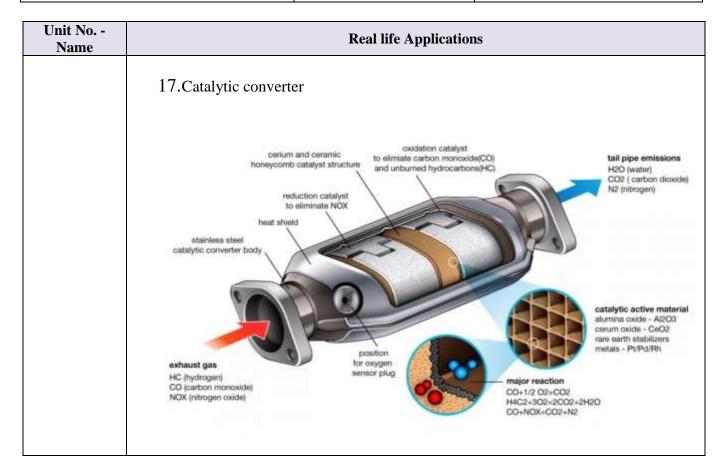


Record No.: 2	Record No.: <b>ZCOER-ACAD/R/16H</b> Revision: <b>00</b> Date: <b>01/04/2021</b>	
Unit No Name	Real life Applications	S
	16. Exhaust gas analyzer	
	MANAHARATIRA MOTOR VEHICLES DE PARTMENT PROVINCIA DE PARTMENT PROV	068





Record No.: **ZCOER-ACAD/R/16H** Revision: **00** Date:**01/04/2021** 



**Prof. S. S. Borade** Course faculty



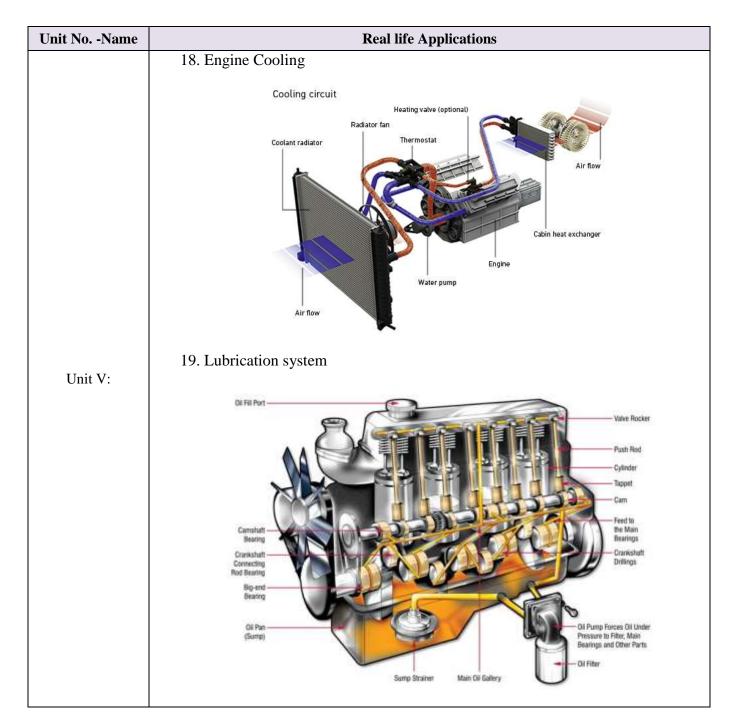


Record No.: **ZCOER-ACAD/R/16H** Revision: **00** Date:**01/04/2021** 

### **Unit Wise Real Time Applications/Live Examples**

**Department:** Mechanical **Semester:** II **Academic Year:** 2023–2024

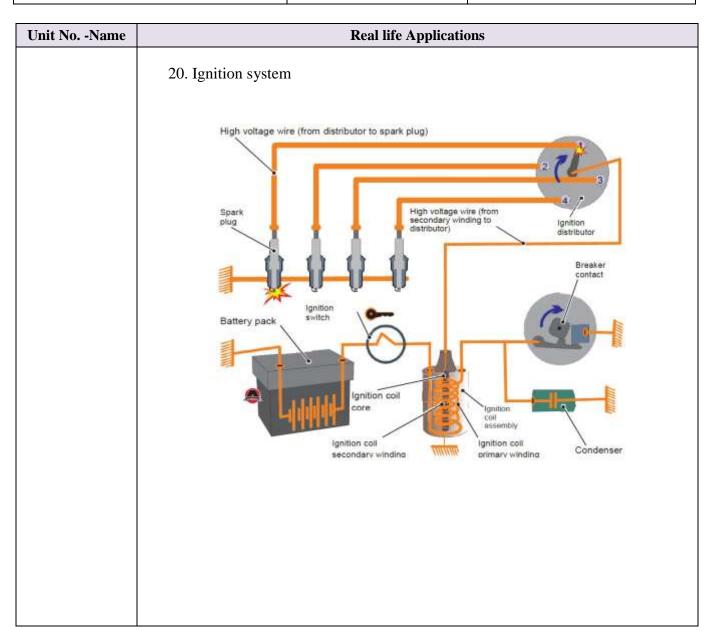
Class: SE Div.: A







Record No.: **ZCOER-ACAD/R/16H** Revision: **00** Date:**01/04/2021** 







Record No.: **ZCOER-ACAD/R/16H** Revision: **00** Date:**01/04/2021** 

### **Unit Wise Real Time Applications/Live Examples**

**Department:** Mechanical **Semester:** II **Academic Year:** 2023–2024

Class: SE Div.: A

Unit NoName	Real life Applications
	21. Spray painting – using rotary air compressor
Unit V:	





Record No.: **ZCOER-ACAD/R/16H** Revision: **00** Date:**01/04/2021** 

### Unit No. -Name Real life Applications

#### 22. Air Compressor - In contruction



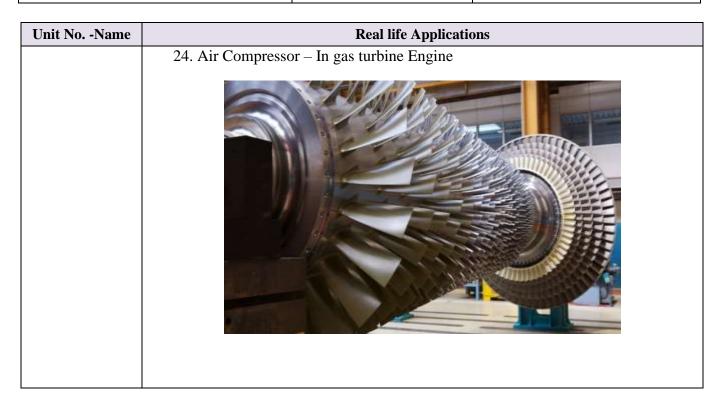
#### 23. Air compressor – In refrigeration







Record No.: **ZCOER-ACAD/R/16H** Revision: **00** Date:**01/04/2021** 



Prof. S. S. Borade Course faculty