



# SHRI SHANKARACHARYA TECHNICAL CAMPUS Shri Shankaracharya Group of Institutions

(Managed by Shri Gangajali Education Society, Bhilai)

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## DEPARTMENT OF MECHANICAL ENGINEERING

A 3 days practical training program on RAC, IC Engine and Power Tools was organized by Mr. Vijay kumar on 21-

### DAY-1 ACTIVITY

1. VERNIER CALLIPER L.C
2. TOOLS .
3. STROKE.
4. 2STROKE & 4-STROKE.
5. MAIN PARTS OF I.C. ENGINE. 4-STROKE.DISMANTLING HEAD,CAM,VALVE,SPROCKET OF TIMING CHAIN,SPARK PLUG,PISTON,RINGS,CONNECTING ROD,GUDGEON PIN,TIMING BELT.(DISCUSS MATERIAL REQUIRED FOR THE ABOVE MENTIONED ITEMS.
6. CVT
7. ACTIVA ENGINE WORKING
8. CAM TUNING
9. VALVE SETTING
10. GEAR BOX DISASSEMBLY OF 4-S ENGINE
11. 4-S FUEL FROM PETROL TANK TO CARBURETTER OR ECU . IGNITION:PRODUCE SPARK TO IGNITE FUEL & AIR MIXTURE.12V BATTERY TO IGNITION COIL WHICH GENERATE PULSE OF 20000V.TEMPRATURE AT THE TIME OF COMBUSTION IS 700DEGRE CELCIUS.
12. CAPACITY OR CC :  $PI/4 *BORE^2*STROKE *NO. OF CYLINDERS.$
13. VLC.
14. DIFFERENTIAL WORK. VLC
15. DISMANTLING & NAME OF GEARS ETC.
16. GEAR RATIO.VLC.

### Day- 2 Acticity

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1. Introduction.
  2. Basic terms used in RAC.
  3. Description Of basic REFRIGERATION cycle.
  4. Working of window AC parts. video
  5. Working Of Refrigerator system. video
  6. Specification of Compressor.
  7. Types of Refrigerants.
  8. Detail knowledge of Ton.
  9. Detail knowledge of BTU, BTU/HR.
  10. About capillary tube all specifications.
  11. Types of expansion devices.
  12. Refrigerant used FC,HFC,CFCC,CFCDC,CFCTCetc.
  13. Relation between Kelvin,degree celcius,fahernite.