Motor Bensin (OT.451)

- I. Engine Basic:
 - 1. History
 - 2. Engine Types
 - 3. Engine Components
 - 4. Engine Systems
 - a. Cooling Systems
 - b. Lubricating Systems
 - c. Electrical Systems (ignition, charging, starting)
 - d. Fuel Systems
 - 5. Tune-Up Procedure

II. Working Cycle

- 1. The Four Stroke Working Process
- 2. The Two Stroke Working Process
- 3. Ideal Models of Engine Cycles
- 4. Real Engine Cycles

III. Engine Characteristics

- 1. Compression Ratio
- 2. Break Torque, Power and Work
- 3. Piston Speed
- 4. Indicated Work
- 5. Mean Effective Pressure
- 6. Power and Torque
- 7. Efficiency
- 8. Performance Maps
- 9. Interaction Engine

IV. Emissions

- 1. General Considerations
- 2. Formation of Pollutants
 - a. Emissions of SI Engines
 - b. Emissions of CI Engines
 - c. Comparison of SI and CI Engines Emissions

V. Recent Developments

- 1. Variable Valve Timing
- 2. Learn Burn Concept
- 3. Gasoline Direct Injection
- 4. Denox Catalytic Converters

VI. Over Houll Procedure

- 1. Disassembly Procedure
- 2. Measurement Procedure
- 3. Assembly Procedure