

<b>COURSE TITLE</b>	<b>: PETROL ENGINE SERVICE LAB</b>
<b>COURSE CODE</b>	<b>: 322</b>
<b>COURSE CTEGORY</b>	<b>: B</b>
<b>PERIODS/WEEK</b>	<b>: 6</b>
<b>PERIODS/SEMESTER</b>	<b>: 108</b>
<b>CREDITS</b>	<b>: 3</b>

### CONTENT OUTLINE

1. Safety precautions to be followed in an Automobile workshop
2. Study of tools, gauges and equipment
3. Cleaning, greasing or oiling of equipment
4. Dismantling and assembling two stroke and four stroke petrol engines
5. Inspection of various engine components and methods of reconditioning – checking of cylinder head for warping, and cracking – valve lapping, refacing and grinding – removal and refitting of valve guides – checking of cylinder for ovality and taper by using bore gauge – cylinder reboring and honing — use of connecting rod aligner and straightner – use of dial gauge for checking crank shaft and cam shaft – axial play adjustment in cam shaft and crank shaft . Piston reconditioning
6. Dismantling, cleaning and testing of A.C. mechanical pump
7. Dismantling, cleaning and tuning of carburetor – servicing of air cleaner
8. Engine oil and oil filter element changing
9. Flushing of lubricating and cooling systems/oil pump inspection,
10. Dismantling, cleaning and assembling of water pump
11. Checking and adjustments of fan belt tension.
12. Trouble shooting in petrol engines-setting the ignition timing and starting the engine.