

COURSE TITLE : DIESEL ENGINE SERVICE LAB
COURSE CODE : 419
COURSE CATEGORY : A
PERIODS/WEEK : 6
PERIODS/SEMESTER : 108
CREDITS : 3

CONTENT CONTENTS

1. Diesel engine dismantling - 4 stroke. Inspection of various engine components and methods of reconditioning , checking of cylinder head for twist , bend , warpage and crack
2. Removal of piston , connecting rod, and valve operating mechanism. checking of valves, valve lapping , refacing and grinding , removal and refitting of valve guides , checking of cylinder for ovality and taper using bore gauge.
3. Cylinder reboring and honing . Use of dial gauge for checking crankshaft and cam shaft. Axial play adjustment in crankshaft and camshaft.
4. Oil sump removal , dismantling and assembling oil pump. Engine oil and filter replacement .
5. Flushing of coolant , coolant pump removal.
6. Dismantling , cleaning and assembling of F.I.pump . Bleeding of diesel fuel system . servicing of fuel feed pump, servicing of nozzles. Nozzle testing – pressure , spray pattern and leak off test.
7. Dismantling , cleaning and assembling of distributor type fuel pump.
8. Trouble shooting of diesel engines
9. Bleeding of diesel fuel system