

COURSE MODULE Course No. CE 47: Special Course on I. C. Engine Duration: 1Week Effective Days:06			
CM No.	Subjects wise Contents	Periods	Total Periods
47.1	I. C. Engine:		32
	Working principle of 4 Stroke Diesel Engine.	2	
	Deviations between actual working cycle and Theoretical cycle	2	
	Firing order, V.T. diagram, power flow in multi- cylinder Engines.	2	
	Air supply system, and Combustion of fuel, Air cleaners, Turbo charger, after cooler.	2	
	Fuel supply system.	2	
	Cooling system, Thermostat, Anti-freeze, Pressure, Capacity,	2	
	Lubrication system, Types of Lubricating filter function, Filtrations	2	
	Adjustment of Valve clearance	2	
	Adjustment of Injection timing, Removing Air lock, testing of Injectors	2	
	Crankshaft inspection, Tightening torque clearance of working parts	2	
	Maintenance steps	2	
	Maintenance schedule of Cummins Engine	2	
	Maintenance schedule of MWM & Kirloskar Engine	2	
	Maintenance schedule of Duetz Engine	2	
	Maintenance schedule of QST-30 Engine provided on RGM	2	
	Troubleshooting and failure analysis.	2	
47.2	Introduction & Valediction	2	2
	Total	34	34

Note: 1. Eligibility: SSE/SE/JE and Technicians.

2. Practical demonstration in Model rooms shall be given along with theoretical as and When required.