

COURSE MODULE			
Course No. CE 43: Special Course on DGS, BRM			
Duration: 1Week		Effective Days:06	
CM No.	Subjects wise Contents	Periods	
43.1	Electrical & Electronics:		8
	Engine circuit of DGS & Troubleshooting.	2	
	ZF Gear Box Electronic Circuit & Troubleshooting.	2	
	PCBs EK2081, 2032, 2083 of DGS, Adjustments, Fault finding & Troubleshooting	2	
	Engine circuit of BRM& Troubleshooting.	2	
43.2	Hydraulics:		8
	Working & Construction of Vane pump, Axial piston pump & Troubleshooting.	2	
	Working & Construction of Relief Valve, D.C. Valves - Spring Centred valve, Spring Offset valve & Troubleshooting.	2	
	Study of Hydraulic Circuit of DGS.	2	
	Study of Hydraulic Circuit of BRM	2	
43.3	I.C.Engine:		6
	Construction, Working Principle, Main Systems & Troubleshooting	2	
	Maintenance Schedule / Steps & Troubleshooting	2	
	Injector, Crosshead and Valve adjustment, Lubricating oil flow Diagram.	2	
43.4	Working of DGS, BRM		8
	DGS - Main features main units and their function, Technical data.	2	
	DGS – Working, Adjustment of Frequency and Preload and their values at different work sites.	2	
	Power transmission, Precautions during work, Working Limitations. Proportional Levelling system and modes of working.	2	
	BRM - Main features, main units viz. Wings, Centre Plough, Broom and their function, Power Transmission, Technical data, Precautions during work.	2	
43.5	Visit to CPOH	2	2
43.6	Introduction and 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.